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MARKETING and TRANSPORTATION SITUATION

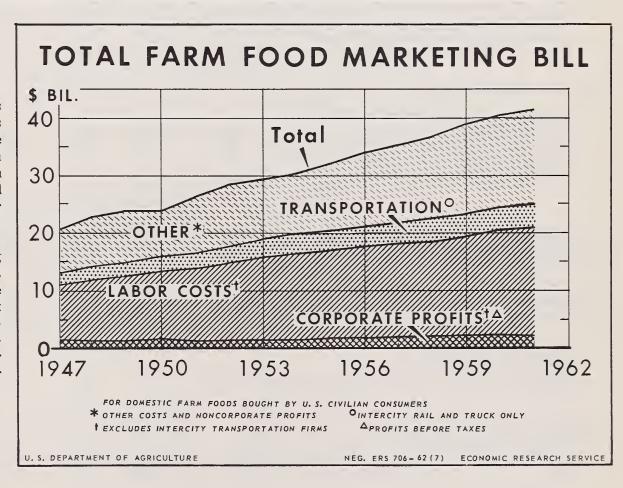


MTS-146

For Release August 10, P. M.

AUGUST 1962

The bill for marketing domestic farm-originated food products bought by civilian consumers in this country has risen each year since 1950. It reached \$41.4 billion in 1961 -- 73 percent higher than in 1950. This increase resulted from rising marketing charges per unit of product marketed and increases in volume of marketings. All components of the marketing bill increased. In 1961 labor costs accounted for 46 percent of the total marketing bill, rail and truck transportation charges for 10 percent, corporate profits before income taxes for 5 percent, and other costs and noncorporate profits for 39 percent.



IN THIS ISSUE

- Farm-Food Marketing Bill
- Concentration and Ownership in Food Industries.
- Marketing Food in Jamaica
- Advertising Expenditures

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CURRENT SERIAL RECORDS

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	: Unit or :		1961			062
Item	:base period:	Year	: AprJune:	OctDec.	:JanMar.	:AprJur
	:					
Farm-to-retail price spreads	:					
Farm-food market basket: 1/	:	/-		7 010	3 0/0	2.0//
Retail cost	Dol. :	1,060 404	1,062 400	1,049	1,062 414	1,066 403
Farm value	Dol. :	656	662	398 651	648	663
Farm-retail spread	Pct.	38	38	38	39	38
rarmer's share of retail cost	: ::)0	٥ر	90)))0
Cotton: 2/	: :					
Retail cost	.: Dol. :	2.19	2.18	2.19	2.15	
Farm value	.: Dol. :	.31	.31	• 33	.33	
Farm-retail spread		1.88 14	1.87 14	1.86 15	1.82 15	
Farmer's share of retail cost	: 100. :	T↔	14	1)	1)	
Cigarettes: 3/	: :					
Retail cost		27.6				
Farm value		4.23				
Federal and State excise taxes		12.4 11.0				
Farm-retail spread excluding excise taxes		15				
raimer g amale of legali cost	:	1)				
eneral economic indicators						
Consumers' per capita income and expenditures: 4/	:					
Disposable personal income		1,979	1,969	2,015	2,024	2,049
Expenditures for goods and services		1,840	1,830	1,871	1,887	1,906
Expenditures for food		386	384	388	394	
Expenditures for food as percentage of	: :					
disposable income	.: Pct. :	19.5	19.5	19.3	19.5	
	: :	1	961 :		1962	····
			June		: May	: June
5/	: :	0.00		0.00	0.00	2.39
Hourly earnings, production workers, manufacturing Hourly earnings of food marketing employees 6/		2.32	2.32	2.39	2.39	7 44
hourty earnings of 1000 marketing employees of						_
	: 201.	2.04	2.04	2.09	2.11	
Retail sales: 7/						_
Retail sales: 7/ Food stores	: : : : : : : : : : : : : : : : : : :	2.04 4.618				
Retail sales: 7/	: : : : : : : : : : : : : : : : : : :	2.04 4.618	2.04	2.09	2.11	4,709
Retail sales: 7/ Food stores	Mil. dol.	2.04 4.618	2.04 4,622	2.09 4,787	2.11 4,801	4,709
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage	Mil. dol. : Mil. dol. :	2.04 4.618	2.04 4,622	2.09 4,787	2.11 4,801	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage Textile	### Mil. dol. : ### Mil. dol. : ### Bil. dol. : ### Bil. dol. :	4,618 1,144 5.24	4,622 1,136	2.09 4,787 1,207	4,801 1,196	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage	### Mil. dol. : ### Mil. dol. : ### Bil. dol. : ### Bil. dol. :	4,618 1,144 5.24	2.04 4,622 1,136	2.09 4,787 1,207	2.11 4,801 1,196	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage Textile Tobacco Indexes of industrial production: 8/	### Mil. dol. : ### Mil. dol. : ### Bil. dol. : ### Bil. dol. : ### Bil. dol. : ### Bil. dol. :	4,618 1,144 5.24	2.04 4,622 1,136 5.05 2.75	2.09 4,787 1,207 5.32 2.80	2.11 4,801 1,196 5.34 2.84	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage Textile Tobacco Indexes of industrial production: 8/ Food and beverage manufactures	### Mil. dol. ####################################	2.04 4,618 1,144 5.24 2.74 2.17	2.04 4,622 1,136 5.05 2.75 1.96	2.09 4,787 1,207 5.32 2.80 2.17	2.11 4,801 1,196 5.34 2.84 2.18	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage Textile Tobacco Indexes of industrial production: 8/ Food and beverage manufactures Textile mill products.	Mil. dol. : Mil. dol. : Bil. d	2.04 4,618 1,144 5.24 2.74 2.17	2.04 4,622 1,136 5.05 2.75 1.96	2.09 4,787 1,207 5.32 2.80 2.17	2.11 4,801 1,196 5.34 2.84 2.18	4,709 1,116
Retail sales: 7/ Food stores Apparel stores Manufacturers' inventories: 7/ Food and beverage Textile Tobacco Indexes of industrial production: 8/ Food and beverage manufactures	Mil. dol. : Mil. dol. : Bil. d	2.04 4,618 1,144 5.24 2.74 2.17	2.04 4,622 1,136 5.05 2.75 1.96	2.09 4,787 1,207 5.32 2.80 2.17	2.11 4,801 1,196 5.34 2.84 2.18	4,709 1,116
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^{1/} Average quantities of farm food products purchased per wage-earner or clerical-worker family in 1952. 2/ Data for average family purchases in 1950 of 25 articles of cotton clothing and housefurnishings divided by number of pounds of lint cotton required for their manufacture; see U.S. Dept. Agr. Mktg. Res. Rpt. 277. 3/ Preliminary data for package of regular-sized, popular brand cigarettes; farm value is return to farmer for 0.065 lb. of leaf tabacco of cigarette-types; data for fiscal year beginning July 1, 1961. 4/ Seasonally adjusted annual rates, calculated from Dept. of Commerce revised data. Second quarter 1962 data are from preliminary estimates by the Council of Economic Advisers. 5/ Dept. Labor. 6/ Weighted composite earnings in food processing, wholesale trade, retail food stores, calculated from data of Dept. Labor. 7/ Seasonally adjusted, Dept. Commerce. Sales data for 1961 are averages of monthly totals (unadjusted). Inventory data for 1961 are book values at end of year (adjusted). 8/ Seasonally adjusted, Board of Governors of Federal Reserve System. 9/ Converted from 1910-14 base.

THE MARKETING AND TRANSPORTATION SITUATION

Approved by the Outlook and Situation Board August 1, 1962

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SUMMARY

Retail prices of domestic farm-originated food products in the second quarter this year averaged about the same as a year earlier. A small increase in the level of prices farmers received for these products caused mainly by higher prices for beef cattle, was partly offset by a decline in marketing charges.

Retail prices of these products likewise averaged about the same in the quarter just ended as in January-March this year. Prices farmers received were down 2 percent from the first quarter, reflecting

mainly lower prices for beef cattle, hogs, milk, chickens, and eggs. This decrease in farm prices was offset by a rise of 2 percent in marketing charges, most of which resulted from higher marketing charges for meat products, fruits, and vegetables.

Farmers received 38 cents of each dollar consumers spent for farm foods in retail food stores in April-June of this year, I cent less than in the preceding quarter but the same share as in the second quarter last year.

Highlights of Special Articles

The total bill for marketing domestic farm food products sold to civilian consumers in this country totaled \$41.4 billion in 1961, about 2 percent more than in 1960. This rise, which was smaller than the average annual increase since 1950, resulted from expansion in the volume of products marketed and a slight increase in marketing charges per unit of product. Consumer expenditures and farmers' re-

ceipts for these products also rose slightly from 1960 to 1961.

Steady annual increases in unit marketing charges and almost steady gains in the volume of products marketed raised the marketing bill by about three-fourths from 1950 to 1961. The rise in unit marketing charges reflects increases in costs

and marketing services. Profits per unit of product have fluctuated and were lower in 1961 than in 1950. Farmers' total receipts from these products rose much less than the marketing bill, and the rise in receipts resulted entirely from increased marketings. (The Farm Food Marketing Bill, pp. 10-19).

Leading firms in most food manufacturing industries had about the same proportion of industry shipments in 1958 as in 1947. The proportion of total shipments made by the 4 largest firms in each of 11 industries manufacturing farm-food products increased from 1947 to 1958. The largest increase was in the flour mixes industry -- from 41 percent in 1947 to 75 percent in 1958. The smallest increase -- 2 percentage points -- occurred in each of these 5 industries, the 4 largest firms had less than 40 percent of the In each of 13 other total shipments. farm-food manufacturing industries, the proportion of shipments made by the 4 largest firms declined during this 11-year period. Decreases ranged from 1 percentage point in the cane sugar refining industry to 20 percentage points in the poultry dressing plants industry. These are among the findings in a recent report, Concentration Ratios in American Industry, prepared by the Bureau of the Census for the Senate Antitrust and Monopoly Subcommittee. The trend toward increased ownership of establishments by multiunit firms continued in the food manufacturing industries between 1947 and 1958. Establishments operated by multiunit firms in the food and kindred products industry group accounted for 69 percent of the total value added by manufacturing in 1958, up from 65 percent in 1954 and 61 percent in 1947. The type of organization of firms did not change much in the food manufacturing industries. Corporations owned 52 percent of the establishments in the food and kindred products industry group in 1958 compared with 49 percent in 1947. (Concentration and Ownership in Food Manufacturing Industries, pp. 20 - 27).

A study made recently of the marketing of agricultural products on the island of Jamaica may have application to conditions in other developing countries. The study reveals that the Jamaican economy has made remarkable progress since World War II. However, the output of agricultural products has decreased, necessitating an increase in food imports to feed a growing population. Hundreds of agricultural products, produced mainly on small farms, are marketed through various organizations in which the higgler is predominant. The higgler is typically a farmer's wife who sells at public farmers' markets. While physical marketing facilities are fairly adequate, substantial improvements are needed in the areas of marketing information, pricing practices, and marketing costs. These deficiencies also indicate the direction of marketing improvements needed. The two major needs are: (1) Establishment of an organization to give systematic and continuing direction to bettering commercial marketing operations; and (2) improved appraisal of market prospects for the various products which can be grown. In addition, marketing would be improved by an expanded research program and consolidation of governmental activities pertaining to agricultural production and marketing. (Marketing Food Domestically in Jamaica, pp 28-38).

Corporations manufacturing food products in this country spent \$1.1 billion for advertising in 1961. Food retailing corporations spent an estimated \$267 million last year -- more than four times the 1950 expenditure. Such retail growth reflected increases in the number and size of corporate retail food stores. Food wholesaling corporations boosted their advertising expenditures at a slower pace -- from about \$65 million in 1950 to \$102 million in 1961. Among the food manufacturing industries, increases in advertising expenditures were particularly marked in canning, baking, and dairy products. (Advertising Expenditures by Food Marketing Corporations, 1950-51, and 1953-61, pp. 39-40).

FARM-RETAIL SPREADS FOR FARM FOOD PRODUCTS

Farm Value Down 2 Percent From First Quarter; Farm-Retail Spread Up 2 Percent

The farm value of the market basket of farm foods averaged \$403 (annual rate) in the second quarter, 2 percent below the first quarter average (table 16, p. 42). 1/ The spread or marketing margin was \$662 (annual rate), the third highest quarterly average on record and 2 percent higher than in the first quarter (table 17, p. 43). The combination of an increase in the spread and a decrease in the farm value left the retail cost about unchanged at an annual rate of \$1,066. Since the second quarter of 1960, this retail cost has fluctuated within the narrow range of \$1,049 to \$1,068.

Declines in farm prices of beef cattle, hogs, milk, chickens, and eggs accounted for most of the decrease in the farm value. These decreases were somewhat

offset by an 8 percent increase in the farm value of fruits and vegetables.

Practically all of the increase in the farmeretail spread was attributed to the meat products and fruits and vegetables groups. The only other significant changes among the product groups were a 4 percent decrease for the poultry and eggs group and a 2 percent increase for fats and oils.

The only significant changes in retail costs of the products groups were decreases for dairy products and poultry and eggs and an increase for fruits and vegetables. The retail cost of the market basket did not vary by more than 1 percent during the first 6 months of this year (table 1).

Little Change in Spread, Farm Value, and Retail Cost From Year Earlier

Both components of the market basket retail cost in the second quarter this year averaged about the same as a year earlier (table 2). A small increase in the farm value was about offset by a decline in the farm-retail spread, leaving the retail cost scarcely changed.

Changes in the farm values of the product groups from a year ago were larger than for the market basket total. The farm value of meat products rose 6 percent from the second quarter last year, and the farm value of bakery and cereal

products rose 7 percent. But these increases were partly offset by small decreases for the dairy products and poultry and eggs groups and a 19 percent decrease for fats and oils.

The farm-retail spread for meat products declined 5 percent; the spread for the fats and oils group increased 10 percent. Changes for other product groups were small. There were a few minor changes in the retail costs of major product groups; the largest was a 3 percent decrease for poultry and eggs.

^{1/} The "market basket" contains the average quantities of domestic farm-originated food products purchased per family in 1952 for consumption at home by urban wage-earner and clerical-worker families. Additional information concerning the contents of the market basket and methods of estimating market-basket data are given in Farm-Retail Spreads for Food Products, USDA Misc. Pub. 741, November 1957. Since the market basket does not contain imported foods or fishery products and other foods of nonfarm origin or the cost of meals in eating places, its retail cost is less than the cost of all foods bought per family. The farm value is the return to farmers for the farm products equivalent to the foods in the market basket. The farm-retail spread is the difference between the retail cost and farm value. It is an estimate of the charges made by marketing firms for assembling, processing, transporting, and distributing the products in the market basket.

Table 1.--The farm food market basket: Retail cost, farm value, farm-retail scread. and farmer's share of retail cost, 1947-62 1/

Year and Month	Retail cost <u>2</u> /	Farm value $\frac{3}{2}$	Farm-retail spread	Farmer's share
	Dollars	Dollars	Dollars	Percent
1947-49 average	940	466	474	50
1950 1951 1952 1953 1954 1955 1956 1957	1,024 1,034 1,003 986 969 972 1,007	432 497 482 445 421 395 390 401 430	488 527 552 558 565 574 582 606 634	47 47 42 43 41 40 40
1959:	1,040	398	642	38
1957-59 average	1,037	410	627	j=C
1960 1961 <u>4</u> /		407 404	646 656	39 38
1961 4/ January February March April May June July August September October November December	1,070 1,068 1,068 1,060 1,059 1,066 1,060 1,058 1,054 1,045	418 424 415 409 398 393 396 402 402 396 396 395 404	650 646 653 659 662 666 670 658 656 656 658	39 40 39 38 38 37 37 38 38 38 38 38
1962 4/ January February March April May June	1,065 1,064 1,066 1,063	411 416 414 409 401 401	646 649 650 \$57 662 667	39 39 39 38 38 38

^{1/} The farmer's share and index numbers of the retail cost, farm value, and farmertail spread for the years 1913-61 (1957-59=100) are published in the February 1962 Marketing and Transportation Situation (MTS-144), p. 50. 2/ Retail cost of average quantities purchased per family in 1952 by urban wage-earner and clerical worker families, calculated from retail prices collected by the Bur. Labor Statistics. 3/ Payment to farmers for equivalent quantities of farm produce minus imputed value of byproducts obtained in processing. 4/ Preliminary estimates.

[:] Current data are given in the Statictical Summary, : a monthly publication of the Statistical Reporting Service.:

Table 2.--The market basket of farm foods: Retail cost, farm value, farm-retail spread, April-June, 1962 and 1961

:				
Item :	Apr	Apr June		AprJune 1962 rJune 1961
	1962 :	: 1951	Actual	Percentage
	Dollars	Dollars	Dollars	Percent
Market basket Meat products Dairy products Poultry and eggs Bakery and cereal products All fruits and vegetables Fats and oils Miscellaneous products	277.72 198.41 80.53 169.98 250.21 43.80	1,062.43 276.22 200.38 82.96 167.73 246.35 43.82 44.97	3.13 1.50 -1.97 -2.43 2.25 3.86 02 06	1/ 1 -1 -3 1 2 1/ 1/
		Farm	value	
Market basket Meat products Dairy products Poultry and eggs Bakery and cereal products All fruits and vegetables Fats and oils	85.82 46.73 31.52 76.10	399.77 136.34 97.64 48.66 29.38 75.98 14.64	3.71 7.93 -1.82 -1.93 2.14 .12 -2.84	1 6 -2 -4 7 1/ -19
Miscellaneous products		7.13	.10	1
		Farm-reta	il spread	
Market basket Meat products Dairy products Poultry and eggs Bakery and cereal products All fruits and vegetables Fats and oils Miscellaneous products	33.80 138.46 174.11 32.00	662.66 139.88 112.74 34.30 138.35 170.37 29.18 37.84	58 -6.43 15 50 .11 3.74 2.82 16	1/ -5 1/ -1 1/ 2 10 1/
		armer's share Percent		cost ntage point
	Percent		rereel	
Market basket Meat products Dairy products Poultry and eggs Bakery and cereal products All fruits and vegetables Fats and oils Miscellaneous products	52 43 58 19 30 27	38 49 44 59 18 31 33		0 3 -1 -1 1 -1 -6 0

Beef was the major cause of changes in the meat products group. The farm value of Choice grade beef averaged 49.8 cents per retail pound in the second quarter this year, 11 percent higher than in the same period last year (table 3). This increase was accompanied by a 10 percent decline in the farm-retail spread. Both the farm-wholesale and wholesale-retail segments of the spread declined. The increase in the farm value and decrease in the spread left the retail price of beef at 80.5 cents, 2 percent higher than a year earlier.

Both the farm value and retail price of lamb increase 9 percent from the relatively low levels of the second quarter of 1961 to the same quarter this year; the spread increased 10 percent.

During the first half of this year, the market basket retail cost, farm value, and farm-retail spread all averaged nearly the same as in the first half of 1961.

Farmer's Share Down From First Quarter

The farmer's share of the retail cost of the market basket was 38 percent in the April-June quarter this year, down 1 point from the share in the January-March quarter. It was also 38 percent in the second quarter last year. Since

the last quarter of 1958, the quarterly average farmer's share has fluctuated between 38 and 39 percent, except in the fourth quarter of 1959 when it reached a postwar low of 37 percent.

Farm Prices of Eggs and Frying Chickens Decline Sharply From First Quarter

Prices received by farmers for frying chickens dropped 11 percent from the first to the second quarter, but were still 4 percent above the low prices received in the second quarter of 1961. Much of this reduction was passed along to consumers, as retail prices declined 5 percent from the January-March quarter. The farm-retail spread was 3 percent higher than in the first quarter and 1 percent higher than a year earlier.

Production of frying chickens probably will be about 5 percent smaller in the third quarter this year than in the same

period last year, so prices are not expected to reach the extremely low levels of a year ago.

Egg prices, both farm and retail, in the second quarter this year were 8 and 7 percent, respectively, below a year earlier. Consumption per capita is running slightly below a year earlier, which indicates that at least part of the price decline can be attributed to a decline in demand. The outlook for egg prices the rest of this year -- lower than in 1961.

Farm Value of Fats and Oils Group Declines

The farm value of the fats and oils group in April-June 1962 was down 19 percent from a year ago, mainly because of the considerable decrease in the farm price of soybeans from the relatively high level last year.

Almost all of this decrease in the farm value of the fats and oils group was absorbed by an increase in the farm-retail spread, so the retail cost of this group was about the same in the second quarter this year as in the same quarter of 1961.

Table 3.--Beef, pork, and lamb: Retail price, wholesale value, farm value, farm-retail spread, and farmer's share of retail price by quarters, 1961-62

Year and quarter	:Retail pric	<u>l/:</u> value <u>2</u> /	value 3/	Byproduct allowance <u>4</u> /	farm value <u>5</u>	/ Total	wholesale retail	Farm- wholesale	: Farmer's share
	: Cents	Cents	Cents	Cents	Cents	Cents	Cents	Cents	Percent
3063	:			Beef, (C	hoice gr	ade)			
JanMar. AprJune July-Sept. OctDec.	81.7 79.1 76.9 78.9	60.1 55.0 54.3 57.0	54.1 49.5 48.8 52.0	4.3 4.7 4.8 4.7	49.8 44.8 44.0 47.3	31.9 34.3 32.9 31.6	21.6 24.1 22.6 21.9	10.3 10.2 10.3 9.7	61 57 57 60
1962 JanMar. AprJune	: 80.6 : 80.5	59.8 59.4	55.4 54.6	4.6 4.8	50.8 49.8	29.8 30.7	20.8	9.0 9.6	53 62
				Pork, (r	etail cu	ts)			
1961 JanMar. AprJune July-Sept. OctDec.	: 59.6 : 58.3 : 60.1 : 58.9	43.2 41.1 43.7 41.6	37.0 35.4 38.1 35.0	5.5 5.1 4.9 4.3	31.5 30.3 33.2 30.7	28.1 28.0 26.9 28.2	16.4 17.2 16.4 17.3	11.7 10.8 10.5 10.9	53 52 55 52
<u>1962</u> JanMar. AprJune	: 57.9 : 57.8	41.8 40.9	35·3 34·2	4.6 4.4	30.7 29.8	27.2 28.0	16.1 16.9	11.1	53 52
				Lamb, (C	hoice gr	ade)			
1951 JanMar. AprJune July-Sept. OctDec.	67.7 : 64.6 : 65.2 : 66.1	43.7 43.4 44.1 43.3	40.1 37.2 37.0 36.5	6.1 4.7 4.7 5.4	34.0 32.5 32.3 31.1	33.7 32.1 32.9 35.0	24.0 21.2 21.1 22.8	9.7 10.9 11.8 12.2	50 50 50 47
1962 JanMar. AprJune	: : 67.4 : 70.6	42.8 48.2	39.3 41.9	7.1 6.5	32.2 35.4	35.2 35.2	24.6 22.4	10.6	48 50

1/ Estimated weighted average price of retail cuts.

4/ Portion of gross farm value attributed to edible and inedible byproduct.

Data for earlier years were published in The Marketing and Transportation Situation, May 1962, (MTS-145).

^{2/} Wholesale value of quantity of carcass equivalent to 1 lb. of retail cuts: Beef, 1.35 lb.; pork, 1.00 lb.; lamb, 1.11 lb.

^{3/} Payment to farmer for quantity of live animal equivalent to 1 lb. of retail cuts: Beef, 2.25 lb.; pork, 2.13 lb.; lamb, quantity varies by months from 2.28 lb. in June to 2.42 lb. in March.

^{5/} Gross farm value minus byproduct allowance.

THE FARM FOOD MARKETING BILL

The bill for marketing domestic farmoriginated food products to civilian consumers in this country was \$41.4 billion
in 1961, up about 2 percent from 1960,
compared with an average annual increase
of 5 percent for the period since 1950
(table 4). The bill has risen by almost
three-fourths in the 11 years since 1950.
Increases in volume of marketings and in
marketing costs per unit of product have
contributed almost equally to this rise.

The total marketing bill is the estimated total cost of assembling, transporting, processing, wholesaling, and retailing domestic farm-grown foods bought by civilians in this country. It is the difference between total civilian expenditures for these foods and payments to farmers—the farm value—for the equivalent quantity of farm products. Explicitly omitted are foods exported, used for nonfood purposes, and withheld from sale by farm families for their own use. An estimate of the higher retail cost of foods purchased in meals eaten away from home is included in the marketing bill. 2/

Receipts by farmers for the farm equivalent of the same foods advanced slightly,

to \$20.8 billion, last year. Since 1950, receipts by farmers have risen much less than the marketing bill. Increased volume of products marketed has brought about the net gain in receipts for the period, as farm prices have dropped about 6 percent since 1950.

The part of total civilian expenditures for domestic farm-originated foods that was paid for marketing services (the marketing bill) increased from 58 percent of the total in 1950 to 67 percent in 1961.

Consumers spent \$62.2 billion for farm-food products in 1961 -- about 2 percent more than in 1960. These expenditures rose less than the marketing bill and less than their annual average increase of 4 percent for 1950-61. Small increases both in retail prices and in volume marketed contributed to the rise. Since 1950, total civilian expenditures for domestic farm foods have risen by one-half; approximately one-third of the increase is attributable to changes in price, two-thirds to changes in volume of products and services.

Marketing Charges and Volume Components of the Marketing Bill

The advance in the marketing bill from 1950 to 1961 resulted from a rise of about one-third in volume of products marketed and a rise of about the same proportion in marketing charges per unit of product.

From 1960 to 1961, volume and unit marketing charges increased less than the annual average rise since 1950, as did the total marketing bill.

^{1/} Prepared by Jeannette Findlay, statistical assistant, Marketing Economics Division, Economic Research Service, USDA.

^{2/} Another estimate of marketing charges -- the farm-retail marketing bill -- is for the same total quantity of food products, but assumes that all are sold at the retail store level. It is considered further in a later section of this article.

Table 4.-- The total marketing bill, farm value, and consumer expenditures for domestic farm food products bought by civilians, United States, 1929-61

Year	Total marketing bill <u>l</u> /	Farm value	Civilian expendi- tures for farm foods	Year	Total marketing bill 1/	Farm value	Civilian expendi- tures for farm foods
	: Billion	Billion	Billion	• •	: Billion	Billion	Billion
	: dollars	dollars	dollars	::	: dollars	dollars	dollars
1929	9.7	7.2	16.9	::1948 ::1949		19.3 16.9	42.2 40.8
1930	: 9.9	6.4	16.3	::	:		
1931	: 8.6	4.7	13.3	::1947-49 av	: 22.5	18.3	40.8
1932		3.4	10.9	• •	:		
1933		3.6	10.9	::1950		17.6	41.5
1934		4.3	12.1	::1951		20.0	46.4
1935		5.0	12.6	::1952		19.8	48.1
1936		5.8	14.0	::1953		19.1	48.3
1937		6.0	14.1	::1954		18.4	48.4
1938		5.2	13.6	::1955		18.3	50.3
1939	: 8.6	5.2	13.8	::1956		18.7	52.4
2010	:	- (2) =	::1957		19.5	54.7
1940		5.6	14.7	::1958		20.8	57.6
1941		7.1	17.0	::1959	: 39.2	20.0	59.2
1942		9.3	21.0	::	:		
1943		11.4	23.8	::1957-59 av	: 37.1	20.1	57.2
1944		11.6	24.4	**	. 10.5		(- 0
1945		12.6	26.8	::1960		20.7	61.2
1946		15.7 18.7	33.5 39.4	::1961 <u>2</u> / ::1962		20.8	62.2
	:			::	:		

^{1/} Difference between civilian expenditures and farm value except that Federal processor taxes have been deducted for 1933-35 and allowances for Federal Government payments to processors have been added for 1943-46. Data for 1930 and 1952-60 have been revised.

2/ Preliminary.

Estimates in this table do not cover Alaska and Hawaii because of inadequate data.

Rising Unit Marketing Charges

The rise in unit marketing charges reflected mainly increases since 1950 in wage rates, transportation charges, and prices for machinery, equipment, fuel, containers, packaging materials, and other purchases by marketing firms, and taxes, rents, and other costs. Profits, before taxes, per unit of product marketed fluctuated from year to year. In 1960, profits per unit were almost the same as in 1950, but they fell about 5 percent last year (table 6).

Some of the rise in unit marketing charges resulted from increases in marketing operations per unit of product marketing operations are performed within the marketing system now than a decade ago. Operations previously performed by the farmer or left for the consumer have been shifted to the marketing system. Farm processing of dairy products has become of minor importance, for example. Foods are available to the housewife in stages of preparation increasingly closer to "ready to eat." Home canning has decreased in importance. On the other hand, some marketing

Table 5. --Labor, transportation, corporate profits, and other costs for marketing farm food products, United States, 1939-61 1/

:	:	Rail and truck	: Corporate]	profits <u>4</u> /	:	: Total
Year :	Labor <u>2</u> / : :	transpor- tation 3/	Before taxes	After income taxes	: Other <u>5</u> /	:marketing : bill
:	Billion dollars	Billion dollars	Billion dollars	Billion dollars	Billion dollars	Billion dollars
1939	4.2	1.0	0.3	0.3	3.1	8.6
1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949.	4.5 4.9 5.3 5.4 6.0 6.6 8.3 9.7 10.8	1.1 1.2 1.0 1.0 1.1 1.3 1.6 2.0 2.2 2.3	.4 .6 .8 1.1 1.1 1.7 1.5 1.3	·3 ·4 ·4 ·5 ·5 ·5 1·1 1·0 ·8 ·7	3.1 3.2 4.6 5.1 5.1 5.9 6.7 7.5 8.6 9.0	9.1 9.9 11.7 12.6 13.3 14.9 18.3 20.7 22.9 23.9
1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958.	11.8 12.5 13.3 14.1 14.8 15.1 15.8 16.3 16.7	2.6 2.6 3.0 3.2 3.3 3.2 3.5 3.6 3.9 4.1	1.6 1.3 1.4 1.5 1.5 1.8 1.8 1.8	.9 .6 .7 .7 .9 .8 .9	7.9 10.0 10.6 10.4 10.4 11.9 12.6 13.5 14.4	23.9 26.4 28.3 29.2 30.0 32.0 33.7 35.2 36.8 39.2
1957-59 av	16.8	3.9	1.8	•9	14.6	37.1
1960 6/ 1961 6 /	18.4 18.9	4.1 4.3	2.1	1.0	15.9 16.2	40.5 41.4

^{1/} For domestic farm foods bought by civilian consumers.

^{2/} Does not include the cost of labor employed in intercity for-hire transportation.

^{3/} Includes charges for the protective services, heating and refrigeration; does not include local hauling; charges for intercity transportation by water and air are a part of the "other" or residual component of the marketing bill.

^{4/} Does not include profits of unincorporated firms or firms engaged in intercity transportation.

5/ Residual component; includes other costs such as fuel, electric power, containers, packaging materials, air and water transportation, interest on borrowed capital, taxes other than those on income, and noncorporate profits.

^{6/} Preliminary.

Table 6.--Average hourly earnings and labor costs, profits, and marketing charges per unit of product for marketing farm food products, United States, 1939-61 1/

(Index numbers 1957 - 59 = 100) Profit per unit of Hourly Unit Unit product 4/ : marketing Year earnings :labor cost Before taxes After taxes charges 5/ 3/ 1939:: 1940: 1941: 1942: 1943: 1944: 1945 1946: 1947: 1948: 1949: 1950: 89 1951: 1952: 8.9 1953: 1954: 1955: 10,4 1956 1957: 1958: Jús 1959: 1957-59 av....: 1960:: 1961 6/....:

6/ Preliminary.

^{1/} For domestic farm-produced foods bought by civilian consumers in this country.

^{2/} Hourly earnings estimated by dividing total labor cost by total man-hours for all workers. These data include proprietors and family workers not receiving stated remuneration and workers engaged in intercity rail and truck transportation.

^{3/} Unit labor cost is the quotient of the indexes of total labor cost and of volume of farm food products marketed to civilian consumers. The index of farm food products marketed was constructed by weighting the quantities sold by 1947-49 average retail prices.

^{4/} Profit per unit of product is the quotient of the index of total corporate profits from marketing farm foods produced and consumed in the United States and the index of the volume of farm food products marketed.

^{5/} Calculated from annual average spreads between retail cost of a constant market basket of farm food products and payments received by farmers for equivalent farm products; margin has been adjusted for subsidies to marketing firms. The farm-retail spreads are published in this Situation, table 1.

services, such as milk delivery to homes, have been reduced. Self-service and packaging in units of purchase have replaced many retail food store clerks; home delivery has largely become the customer's responsibility. Technological advances have provided some services formerly not available. Thus, the net marketing charge is the result of several changes which have partially offset each other.

the one-third rise in volume of products marketed through 1961. An increase in consumer incomes, movement of population off farms, increasing use of purchased foods by farm as well as nonfarm families, and reduction of direct retailing by farmers also operated to place more food for civilian consumption in the marketing system.

Expansion in Volume

A 21 percent increase in the civilian population since 1950 accounted for part of

Cost and Profit Components of the Total Marketing Bill

The labor, transportation, and corporate profits components of the marketing bill can be estimated separately. All other costs are included in a residual group.

Labor Costs

Labor costs for marketing domestic farm foods to civilian consumers were estimated at about \$19 billion in 1961 These costs are the largest (table 5). single component of the marketing bill, 46 percent in 1961 and 49 percent in 1950. They have risen in the aggregate every year since 1939. Since 1950, annual increases in total labor costs have averaged 4 percent. The change from 1960 to 1961 was smaller than In 1961, labor costs totaled average. 60 percent more than in 1950.

The labor cost component includes wages and salaries paid by assemblers, processors, wholesalers, and retailers (including eating places), and imputed payments to proprietors and family workers. 3/ It also includes tips, supplements such as social insurance, workmen's compensation, and other "fringe benefits." It does not include labor costs of transportation firms.

Increases in the quantity of foods passing through the marketing system were responsible for about three-fifths of the increase in labor costs from 1950 to 1961. Rising labor costs per unit of product, largely the result of mounting wage rates and supplements, contributed the remaining two-fifths.

Hourly earnings of food marketing workers were 62 percent above the 1950 level in 1961 and rose 4 percent from 1960 to 1961 (table 6). But productivity increased such that fewer man-hours were required per unit of product; thus unit labor costs did not rise as much as hourly earnings. The 1961 average unit labor cost was 22 percent above that for 1950 and averaged the same as in 1960, though hourly earnings increased last year.

Transportation

The intercity transportation bill represents total charges by railroads and motor carriers for hauling the farm food products covered by the marketing bill. This transportation bill is estimated

^{3/} Many establishments that handle farm food products also handle nonfarm foods and other products. Their total labor cost, therefore, cannot be included in these estimates. In general, the proportion included is the percentage of the establishment's total sales or output represented by farm food products.

at \$4.3 billion in 1961, up 5 percent from 1960 (table 5). The rise resulted mainly from an increase in the volume of products hauled. Rail rates for food products averaged slightly lower last year than in 1960. Available information indicates that motor carriers' rates were about the same in 1961 as in 1960.

The transportation bill increased in most years from 1950 to 1961. In 1961, it was about two-thirds higher than in 1950. This rise was caused by higher rates, increased volume, and longer hauls.

Corporate Profits

Profits before taxes of corporate food marketing firms declined slightly in 1961 from the record level in 1960 (table 5). These profits were 25 percent higher in 1961 than in 1950. They dropped to a postwar low in 1951. Between 1951 and 1955, profits before taxes increased by nearly two-fifths, then leveled off in 1956-58. They increased again in 1959 and 1960.

As in most recent years, corporate profits after taxes in 1961 were about half as large as profits before taxes. In 1961, profits after taxes were 11 percent higher than in 1950.

Profits before taxes represented about 5 percent of the marketing bill in 1961, a little lower than the 7 percent in 1950. During the last decade, this percentage fluctuated between 4.8 and 5.6 percent.

Corporate profits before taxes per unit of food moving through the marketing system dropped from 106 (1957-59=100) in 1960 to 101 in 1961 and were 6 percent lower in 1961 than in 1950 (table 6). From 1950 to 1961, the index of profits before taxes per unit varied between 88 in 1954 and 108 in 1950. The record high was 119 in 1946. Profits after taxes per unit of product in 1961 were down 19 percent from the 1950 level.

In 1958, corporations accounted for 90 percent of the value added by food manufacturing establishments. Corporate establishments accounted for 54 percent of sales in retail food stores and 34 percent of sales by eating places. In the wholesale food trade, corporations contributed 66 percent of total sales. Thus, corporations received most of the profits earned from marketing the products covered by the marketing bill.

Profits of Leading Food Marketing Corporations .-- Profits (after taxes on income) of 45 leading food manufacturing corporations were 2.3 percent of sales in 1961 compared with 2.4 percent in 1960 This was the first decrease (table 7). in the profit-sales ratio since 1957. The ratios of 7 baking companies and 11 meat packers declined rather sharply in 1961, while the ratio of a group of 9 miscellaneous food manufacturing companies Profits as a perincreased slightly. centage of sales of 8 leading retail food chains averaged the same in 1961 as in 1960. This ratio has not changed since 1957.

As a percentage of stockholders' equity, profits (after taxes) of 50 leading food manufacturing corporations declined from 1960 to 1961. Again the ratios of 8 baking companies and 11 meat packers declined the most, while the ratio of the 9 miscellaneous food manufacturing companies increased a little. Profts of the 8 retail food chains amounted to 11.3 percent of stockholders' equity in 1961, down from 12.5 percent in 1960. During the 1950's, the highest profit percentage was achieved by these chains in 1957; since then, the percentage has declined steadily.

Other Costs and Noncorporate Profits 4/

Other costs and noncorporate profits, the residual group in the marketing bill, amounted to \$16,2 billion in 1961 compared with \$15.9 billion in 1960 and \$7.9

^{4/} This section and the estimates in table 8 were prepared by William T. Wesson, agricultural economist, Marketing Economics Division, Economic Research Service, USDA.

Table 8 .-- Net profits (less provision for taxes on income) as percentage of stockholders' equity and as percentage of sales, leading food and tobacco companies, 1935-61

			Food pr	ocessing o	companies			:	: :	
Year	paking	7:grain mill:products:companies	meat .	5 canning companies		: miscel- : laneous	companies	yholesale food distribu- tors	:retail:	
:	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
			Profits	as percent	tage of sto	ockholders	' equity 2	/		
Average										
1935-39	8.1	9.7	3.6	5.6	7.9	9.8	7.2		8.4	13.9
1940-44		9.6	7.4	8.6	10.5	9.3	8.9		8.5	11.5
1945-49	15.9	13.8	7.4	11.0	13.5	11.9	11.4	17.0	15.5	12.9
1950	11.9 12.4 12.7 11.9 12.0 12.2 12.6 11.7	13.4 11.0 11.0 10.7 12.4 12.4 11.7 12.8 13.4 11.7	5.9 5.0 3.7 6.6 2.7 6.5 6.9 3.9 4.2 7.4	15.4 6.9 7.5 6.6 7.8 10.1 8.2 5.9 8.4 8.2	13.3 10.3 9.9 11.1 12.2 12.0 12.1 11.8 11.5	12.6 9.0 9.3 9.9 10.4 11.2 11.4 12.5	11.5 8.2 9.2 8.9 10.2 10.3 9.6 10.2 10.6	10.0 9.4 5.8 7.6 7.5 6.7 7.6 7.6 9.7 8.1	14.0 10.1 10.0 11.4 11.3 11.2 13.1 14.2 13.8 12.9	13.5 9.9 9.5 10.1 10.6 12.0 12.1 12.8 14.6 14.8
: 1960: 1961 <u>3</u> /:	11.7	11.8 <u>4</u> /	5.9 4.2	8.5 <u>4</u> /	10.8	12.6	10.3	10.1	12.5	14.8
:			Food p	rocessing				:	: :	
: : : :	baking	4:grain mill:products:companies	meat .	4 canning companies	10 : dairy :	9 miscel- laneous food companies	45 companies	: 5 wholesale food distribu- tors	retail	5 tobacco companies
				Profit	s as perce	entage of s	sales			
Average : 1935-39:	6.9	3.8	0.9	3.1	3.1	8.6	3.0		1.5	9.1
1940-44:	4.6	3.0	1.3	3.4	2.9	6.3	2.6		1.1	5.7
1945-49	4.8	3.1	1.0	4.1	2.8	5.2	2.4	1.7	1.4	4.6
1950	3.5 3.6 3.5 3.4 3.4 3.4 3.4	3.1 2.3 2.5 2.5 2.9 3.1 2.9 3.4 3.7 3.2	.8 .4 .8 .3 .8 .5 .5	5.3 2.5 2.7 2.3 2.8 3.6 2.9 2.2 3.0	3.2 2.2 2.1 2.3 2.6 2.6 2.6 2.6 2.6 2.6	5.3 3.7 3.6 3.6 3.8 4.0 4.0 4.1 4.3	2.5 1.7 1.6 1.9 1.9 2.2 2.2 2.1 2.2	1.2 1.1 .7 1.0 1.0 .9 1.0	1.3 .9 .8 1.0 1.0 1.1 1.2 1.2	5.1 3.8 3.8 4.3 4.9 5.0 5.2 5.7
1960: 1961 <u>3</u> /:		3. ¹ 4 <u>4</u> /	.8 .5	3.2 <u>4</u> /	2.6 2.5	4.4 4.5	2.4 2.3	1.2	1.2	5.9 6.0

^{1/} Includes sugar and corn refining companies, processors of vegetable oils, and companies manufacturing a wide variety of packaged foods. 2/ Ratio of net profits to average of stockholders' equity at the beginning and end of the year. Stockholders' equity is excess of total balance sheet assets over liabilities.
3/ Preliminary. 4/ Not available.

Compiled from Moody's Industrial Manual" and company annual reports.

billion in 1950 (table 5). This component accounted for about 39 percent of the marketing bill in 1961 and 33 percent in 1950. It includes costs of fuel, electric power, containers, packaging materials, intercity transporation other than by rail and truck, advertising, depreciation, interest, taxes (other than Federal income), rent, repairs, and other items not included in the rail and truck transportation, labor, and corporate profits components. The other costs component also includes profits of noncorporate firms.

It has been possible to estimate some of the individual items included in the other costs component for 1947-49 and 1960 (table 8). These items amounted to \$5.3 billion in 1960 or 152 percent greater than the 1947-49 average of \$2.1 billion. The total of these items in 1960 was about 13 percent of the marketing bill and 33 percent of other costs and noncorporate profits. The most significant of these cost items, in terms of magnitude, were advertising and depreciation. In 1960 each item amounted to about \$1.2 billion. Next in order of magnitude were taxes and rent.

The 152 percent increase between 1947-49 and 1960 in the total cost of these items conceals wide differences in the

rates of growth of the individual items. Rent increased 233 percent during this period, reflecting the phenomenal postwar growth in food retailing and accompanying increases in the use of rental equipment and facilities. Depreciation increased by 204 percent. This resulted from a combination of an increase in depreciable assets and more liberalized depreciation allowances. Interest increased 184 percent, mainly as a consequence of increased capital requirements and to some extent higher interest rates. Increases for other items were: Advertising, 160 percent; taxes, 124 percent; and repairs, contributions, etc., 91 percent.

The proportions that the individual items were of the total cost changed between 1947-49 and 1960. Slight increases occurred in the proportion accounted for by advertising, depreciation, interest, and rent, whereas the shares of the remaining items declined.

Cost items considered here grew more rapidly than the total of the other items in the other cost component. As noted, the total of the specified items increased 152 percent from 1947-49 to 1960. In contrast, the total of the unspecified items in the group increased 71 percent.

The Farm-Retail Marketing Bill

The farm-retail marketing bill includes all domestic farm-originated food products bought by civilian consumers in this country -- the same food products covered by the total marketing bill. But the farm-retail marketing bill is the difference between the farm value of these products and their value in terms of retail food store prices. Unlike the total marketing bill, it does not include the extra costs of food eaten in restaurants and other eating places or any allowance for marketing charges saved by purchasing at less than retail prices.

Farm-retail marketing bill data, but not total marketing bill data, are available for product groups (table 9). Restaurants'

service costs for individual product groups cannot be estimated accurately, because data on the flow of individual foods through eating places are not available.

The farm-retail marketing bill rose about 2 percent from 1960 to 1961, as did the total marketing bill. The marketing bill for each of the product groups increased. But for each of the groups except poultry and eggs, this bill rose less than the farm-retail marketing bill.

During the last 11 years, the farmretail marketing bill increased about 70 percent, slightly less than the total marketing bill. The two series no longer have distinctly divergent trends, as they considerably faster than farm-retail did from 1939 to 1945, when extra costs costs. for food eaten away from home rose

Table 8 .-- Costs of selected items, and noncorporate profits in the food marketing bill, by type of firm, 1947-49 average and $1960 \frac{1}{2}$

	Proces	sors	Wholesal	lers <u>2</u> /	Retail	ers <u>3</u> /	Tot	al
Item :	Average 1947-49	: : 1960	Average 1947-49	1960	Average 1947-49	: 1960 :	Average 1947 - 49	: : 1960
Advertising		Mil. dol. 889	Mil. dol. 42	Mil. dol. 90	Mil. dol.	Mil. dol. 265	Mil. dol. 478	Mil. dol. 1,244
Depreciation: Interest Taxes paid <u>4</u> /: Rent	45 240 50	739 116 526 179	43 14 52 18	116 36 101 65	126 14 134 163	383 55 327 525	407 73 426 231	1,238 207 954 769
Repairs, con-: tributions, : bad debts: Profits (pre-:	243	434	24	72	71	140	338	646
tax) <u>5</u> /	53	86	26	30	85	130	164	246
Total	1,198	2,969	219	510	700	1;825	2,117	5,304

^{1/} Preliminary.

^{2/} Merchant wholesalers of groceries and related products.
3/ Includes retail food stores; does not include restaurants and other eating places.
4/ Includes property, social security, unemployment insurance, State income, and franchise taxes, license fees, etc., but does not include Federal income tax.

^{5/} Profits are for noncorporate firms only; however, the estimates are based on the corporate concept of profits.

Table 9 .--Farm-retail marketing bill for domestic farm food products purchased by civilian consumers, farm value, and retail cost, all farm foods and five major commodity groups, United States, annual 1929-1961 1/

	All f	farm fo	ods <u>2</u> /	Meat	produc			y prod		Poultr		eggs :		coducts	:		uits a	
lear	Mar- ket- ing bill	:Farm	Re- tail cost	Mar- ket- ing bill	Farm value <u>3</u> /	Re- tail cost	Mar- ket- ing bill	Farm value	Re- tail cost	Mar- ket- ing bill	Farm value	Re- tail cost	Mar- ket- ing bill	Farm value <u>3</u> /	Re- tail cost	Mar-		: D
	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.		Bil.	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.	Bil.
1929	9.86	7.22	17.08	2.22	2.23	4.45	1.57	1.76	3.33	.58	1.12	1.70	2.18	.68	2.86	2.68	1.21	3.89
1930	: 8.40 : 7.21 : 7.30	4.66 3.40 3.56	16.15 13.06 10.61 10.93 12.52	2.21 1.76 1.68	1.37 .91 .92	4.25 3.58 2.67 2.61 3.26	1.41 1.24 1.21		2.66	.58 .49 .34 .32	.93 .71 .54 .48	1.51 1.20 .88 .80	2.22 1.89 1.65 1.60 1.81	·35 ·26 ·34	2.78 2.24 1.91 2.00 2.38	2.55 1.98 1.68 1.86 2.03	.86 .61	2.84 2.29 2.59
1935 1936 1937 1938	8.51 8.20 8.18	5.78 5.98 5.20	12.94 14.29 14.18 13.39 13.37	1.70 2.00 2.05 1.86 1.85	1.49 1.79 1.90 1.71 1.69	3·39 3·79 3·95 3·57 3·54	1.29 1.39 1.41 1.40 1.44	1.29 1.42 1.49 1.32	2.81 2.90	·34 ·39 ·43 ·39 ·38	.77	1.09 1.16 1.24 1.16 1.10	1.75 1.93 1.92 2.01 1.87	.52 .58 .61 .41	2.41 2.51 2.53 2.42 2.26	2.02 2.22 1.81 1.78 1.93	.95	3.22 2.76 2.56
1940 1941 1942 1943	9.2 :10.5 :11.1	7.1	14.1 16.3 19.8 22.3 22.5	1.9 1.8 1.7 1.8 1.9	1.8 2.5 3.2 3.6 3.7	3.7 4.3 4.9 5.2 5.3	1.5 1.7 2.0 2.0 2.0	1.5 1.7 2.1 2.3 2.5	3.0 3.4 4.1 4.3 4.5	.4 .4 .6 .7	.8 1.0 1.4 2.0 1.8	1.2 1.4 2.0 2.7 2.5	1.9 2.0 2.2 2.4 2.3	.4 .5 .7 .9	2.3 2.5 2.9 3.3 3.1	2.0 2.2 2.6 2.4 3.1	.9 1.1 1.5 2.1 2.3	2.9 3.3 4.1 5.0 5.3
1945 1946 1947 1948	15.6 :18.0 :19.9 :20.8	12.6 15.7 18.7 19.3 16.9	24.4 30.8 36.7 39.2 37.7	1.7 2.4 3.4 3.8 4.0	3.7 5.2 7.3 7.5 6.5	5.0 7.3 10.7 11.3 10.5	2.2 2.8 3.1 3.5 3.4	2.6 3.5 3.8 4.1 3.5	4.8 6.3 6.9 7.6 6.9	.8 1.0 1.1 1.2	2.3 2.4 2.7 3.0 2.8	3.1 3.4 3.8 4.2 4.0	2.6 3.0 3.3 3.9	1.0 1.3 1.5 1.5	3.5 4.2 4.8 5.4 5.5	4.0 4.7 5.3 5.4 5.6	2.5 2.6 2.6 2.4 2.3	6.4 7.2 7.9 7.8 7.9
1950 1951 1952 1953	22.8 24.5 25.4	17.6 20.0 19.8 19.1 18.4	38.5 42.8 44.3 44.5 44.5	4.1 4.2 4.9 5.3 5.4	8.0 7.7 7.2	11.3 12.2 12.6 12.5 12.6	3.4 3.9 4.1 4.3 4.5	3.6 4.1 4.3 3.9 3.8	7.0 8.0 8.4 8.2 8.3	1.3 1.5 1.5 1.5	2.6 3.2 3.1 3.3 2.7	3.9 4.7 4.6 4.8 4.3	4.3 4.7 4.9 5.0 5.0	1.3 1.4 1.3 1.4 1.4	5.6 6.1 6.2 6.4 6.4	5.5 6.1 6.7 6.7 6.8	2.2 2.5 2.7 2.5 2.5	7.7 8.6 9.4 9.2 9.3
1955 1956 1957 1958	:29.3 :30.4 :31.9	18.3 18.7 19.5 20.8 20.0	46.1 48.0 49.9 52.7 53.8	6.1 6.3 6.5 6.5 7.4	6.7 6.8 7.6 8.6 8.1	12.8 13.1 14.1 15.1 15.5	4.8 5.0 5.3 5.5 5.8	4.0 4.2 4.3 4.3	8.8 9.2 9.6 9.8 10.1	1.5 1.7 1.8 1.9	3.0 2.9 2.8 3.1 2.7	4.5 4.6 4.6 5.0 4.6	5.2 5.5 5.7 6.3 6.4	1.3 1.3 1.3 1.3	6.5 6.8 7.0 7.6 7.6	7.3 7.5 7.8 8.2 8.6	2.5 2.7 2.7 2.7 2.9	9.8 10.2 10.5 10.9 11.5
1960 1961 <u>4</u> / 1962 1963	35.6	20.7	55.5 56.4	7.6 7.7	8.2	15.8 16.0	5.8 5.9	4.5 4.4	10.3	1.8	3.0 2.8	4.8 4.9	6.7 6.8	1.2	7.9 8.1	9.0 9.1	2.9	11.9

^{1/} Retail-cost estimates represent cost at retail food store prices of all domestic farm foods that were both sold by farmers and bought by civilian consumers in this country. Farm food products sold in the form of meals are included but are valued at what the food would have cost in retail stores. Farm value is adjusted to eliminate imputed value of nonfood byproducts. The farm-retail marketing bill is the difference between the farm value and retail cost except for the years 1933-35 and 1943-46 in which the marketing bill for some groups is adjusted for processor taxes or Government payments to processors. Data for 1952-60 have been revised.

Data for 1913-28 are published in Farm-Retail Spreads for Food Products, USDA, Misc. Pub. 741, 1957, table 33, p. 49.

Economic Research Service.

Estimates do not include Alaska and Hawaii because of inadequate data.

^{2/} Includes vegetable-oil products, sugar, and other food products in addition to the five commodity groups given in this table.

^{3/} The estimated farm values of milk, eggs, fruits, lard and vegetable shortening used in bakery products were deducted from the farm values of other commodity groups and added to the farm value of the bakery and cereal products group.
4/ Preliminary estimates.

Industry Concentration

The distribution of total industry sales or shipments among firms within a given industry is often used as one of the characteristics describing the nature of competition in the industry. High concentration is loosely associated with weak competition. Low concentration is considered a stimulant to strong competition. This association between concentration and competition is not a close one because of a large number of other important forces. These include, among others, barriers to entry of potential competitors, consumer attachment to manufacturers' brands, and the coordination or collusion that may exist among competing firms.

Leading firms in most food manufacturing industries accounted for about the same proportion of industry shipments in 1958 as they did in 1947 (table 10). 2/ Increasing proportions in some industries were offset by declines in others. Between 1947 and 1958, the proportion of total industry shipments made by the 4 largest firms declined in each of 13 industries, stayed the same in 1, and increased in 11. The 4 largest firms made more than half of total shipments in 8 out of the 25 industries in both 1958 and 1947 (table 10). 3/

In 6 industries, the share of the 4 largerst firms increased 5 or more percentage

points from 1947 to 1958. The largest gains were made in flour mixes, dehydrated fruits and vegetables, and rice milling. Also in 6 industries, the share of the 4 leading firms declined 5 or more percentage points. Poultry dressing, shortening and cooking oil, and special dairy products industries declined the most.

Between 1954 and 1958, a period of unusually vigorous merger activity, concentration of shipments made by the 4 largest firms declined in each of 19 industries and increased in 10. Declines of 5 points or more were registered in 10 industries, while only 2 showed increases of 5 points or more.

Comparable 1935 ratios were available for 12 industries. In 6 industries, the 4 largest firms increased their share of business between 1935 and 1958, in 1 the share stayed the same, and in 5 it declined. The greatest increase, 15 percentage points, was in the breakfast food industry. The largest decline, 20 points, was in the cooking oil industry.

According to a classification system suggested by J. S. Bain, the cereal break-

^{1/} Prepared by Stephen J. Hiemstra, agricultural economist, Marketing Economics Division, Economic Research Service, USDA.

^{2/} Industry classifications for 1958 in the first section of this report are comparable with those for 1954 and 1947. All are based on the 1945 Standard Industrial Classification Manual. They differ from classifications for the 1958 company data in the next section, which are based on the revised 1957 SIC. For a comparison of industry classifications used in the 1954 and 1958 censuses, see "The Food Marketing Industries = Recent Changes and Prospects," by F. E. Scott and S. J. Hiemstra, in The Marketing and Transportation Situation, February 1962, footnote 1 to table 8, pp. 20-21.

^{3/} The 4 largest firms in each industry were not necessarily the same firms in both 1947 and 1958.

Table 10 -- Food manufacturing industries: Number of companies in industry and share of total shipments accounted for by largest companies, 1958, 1954, and 1947

		Percent	ntration ratage 2/ of value accounted a	lue of :	Index	ĸes
Industry and year $\underline{1}/$	Companies	4: largest	: 8 : largest : companies	; 20	Primary product special-ization 3	Coverage
	<u>Number</u>	Percent	Percent	Percent	Percent	Percent
Meat packing plants <u>5</u> / 1958	2,228	34 39 41	46 51 54	57 60 63	98 98 <u>6</u> /	88 87 <u>6</u> /
Prepared meats <u>5</u> / <u>7</u> / 1958	1,432 1,254	17 16	25 24	36 35	97 83	33 28
Poultry dressing plants 1958 1954 1947	: 1,189	12 17 32	16 23 40	25 33 58	95 96 88	97 97 88
Creamery butter 1958 1954 1947	: 1,172	11 16 18	18 24 24	28 34 32	70 74 79	80 77 84
Natural cheese 1958 1954 1947	: 1,220	35 25 27	42 30 32	50 39 40	6/ 83 84	<u>6</u> / 74 83
Concentrated milk 1958 1954 1947	166	50 55 50	60 68 63	73 80 76	<u>6</u> / 82 84	69 68 77
Ice cream and ices 1958 1954 1947	1,375	38 36 40	48 45 48	59 57 57	94 93 90	71 70 87
Special dairy products 1958	162	51 66 62	62 75 75	75 88 91	<u>6</u> / 91 91	<u>6</u> / 56 <u>6</u> /
Fluid milk <u>7</u> / 1958		23 22	29 28	37 <u>6</u> /	90 <u>6</u> /	95 <u>6</u> /
Canned fruits and vegetabels <u>8/</u> 1958	1,347 1,461	29 28 27	39 39 35	55 52 46	90 90 91	95 94 94
Dehydrated fruits and vegetables 1958	130 119	45 48 26	66 69 71	82 87 86	97 95 96	93 97 90
Pickles and sauces <u>8/</u> 1958		35 38 33	48 48 43	62 61 59	79 80 88	73 75 69

Continued -

Table 10. -- Food manufacturing industries: Number of companies in industry and share of total shipments accounted for by largest companies, 1958, 1954, and 1947 (Continued)

		Percent	entration rat tage <u>2</u> / of va ts accounted	alue of :	Ind	lexes
Industry and year $\underline{ extbf{1}}/$		4 largest companies	8 largest companies	20 : largest companies	ization $\frac{3}{4}$	Coverage <u>4</u> /
	Number	Percent	Percent	Percent	Percent	Percent
Frozen fruits and vegetables 7/8/						
1958	246 215	31 39	43 55	67 71	79 88	86 84
Flour and meal						
1958	692	38 40 29	51 52 41	68 68 5 7	93 94 92	85 84 92
:	_,	-/		<i>7</i> 1) -)_
Cereal breakfast foods 1958		93 88	95 95	99 99	80 77	81 83
1947		7 9	91	98	68	87
Rice milling	61	43	64	814	100	100
1954	65	4 <u>1</u> 33	60 48	81 72	99 100	100 100
Flour mixes	109	75	86	94	63	2/38
1954	123	73 41	82 60	92 78	71 81	2/45 <u>9</u> /45 <u>9</u> /17
Bread and related products	5,305	22	33	142	98	99
1954	5,470	20 16	31 26	40 36	98 93	99 99
Biscuit and crackers						
1958	252	65 71	72 77 -2	82 85	95 97	9 ¹ 4
1947	249	72	78	86	96	93
Raw cane sugar	45	38	52	78	97	100
1954		40 36	52 45	78 66	96 97	97 100
Cane-sugar refining	36	60	83	700	3.00	100
1958 1954 1947	16	69 67 70	86 83	100 100 100	100 100 100	100 100 100
Beet sugar						
1958	15	64 65 68	94 95 94	100 100 100	90 99 100	100 100 100
Shortening and cooking oil		l.o	75	07	06	00
1958	67	49 55 59	75 80 31	9 7 99 99	86 85 32	88 89 96
						ntinued -

Table 10.--Food manufacturing industries: Number of companies in industry and share of total shipments accounted for by largest companies, 1958, 1954, and 1947 (Continued)

	:	Percen	entration rat tage 2/ of va ts accounted	lue of for by -	Indexes		
Industry and year $\underline{ extbf{1}}/$	Companies		: 8 : largest : companies	: 20 : : largest :	Primary product special ization 3	Coverage	
	Number	Percent	Percent	Percent	Percent	Percent	
Margarine 1958 1954 1947	22 20 17	62 48 64	86 78 90	<u>6</u> / 100 100	84 90 81	61 62 73	
Corn wet milling 1958 1954 1947		73 75 77	92 93 95	99 99 99	91 91 83	95 96 96	
Macaroni and spaghetti 1958		25 26 23	41 37 35	64 58 56	97 98 98	98 95 99	
Cottonseed oil mills 1958 1954 1947	145	42 47 43	54 57 55	71 72 68	92 96 90	92 93 99	
Soybean oil mills 1958	55	140 141 1414	63 64 63	86 89 81	87 88 96	94 96 80	
Food preparations not elsewhere classified 7/ 1958		29 33	36 42	¹ 49 55	94 94	94 86	

^{1/} Industry categories are based on the 1945 version of the Standard Industrial Classification so internal comparability is maintained, but differences exist from 1958 Census of Manufacture.

2/ Percentages are sums of value of shipments of 4 largest (or 8 or 20) companies divided by the total value of shipments of the industry.

3/ Primary product specialization index is calculated by dividing the total value of the products primary to the industry by that industry's total value of shipments.

4/ Coverage index is calculated by dividing the value of the shipments an industry makes of its primary products by the total value of all shipments of those products, including shipments made by other industries.

5/ Concentration ratios are based on value added by manufacture, because the value of shipments contains a substantial and unmeasurable amount of duplication arising from interplant shipments.

6/ Not available.

7/ Data not available for 1947.

 $\ddot{8}/$ Ratios computed on value of production.

9/ Products of the flour mix industry are also primary products of the flour and meal industry.

Compiled from Concentration Ratios in American Industry, Report prepared by the Bureau of Census for the Subcommittee on Antitrust and Monopoly to the Committee on the Judiciary, United States Senate, (87th Cong., 2d sess., 1957) table 2.

fast food industry has "top level" concentration. 4/ Six other industries were either in the "highly concentrated" or "high moderate" classifications in 1958. These were the flour mixes, biscuits and crackers, corn wet milling, cane sugar refining, beet sugar, and margarine industries. In 1954, 8 food industries compared with 9 in 1947 were in these classifications.

Use of concentration ratios (the proportion of total industry shipments made by a specified number of the largest firms), based on Census of Manufacture industry classification, has certain limitations in economic studies. Close substitution exists among some products of different industries such as cane and beet sugar, and flour mixes and flour and meal. Such products belong in a single market. In such cases, industry ratios usually overestimate market concentration. Conversely, some census industries produce products that are quite unrelated in use and not reasonably part of the same market. Then, underestimation of market concentration is generally the result. Concentration ratios in table 10 are based on totals for the entire United States. When markets are regional or local, such as in bread and related products, the stated ratios typically underestimate concentration in a given market. 5/

Total shipments of a plant are assigned to the industry to which the primary product of the plant belongs, even if secondary products economically belong in other industries. The primary product specialization index measures the ratio of primary products to the total shipments of an industry. Products that belong in a given industry may be produced by plants classified in other industries. The coverage index measures the shipments an industry makes of its primary product as a ratio of the total value of shipments of that product, including those made by other industries. Primary product specialization and coverage indexes are not needed when concentration ratios are computed by product, rather than industry classifications.

Product ratios show the proportion of total shipments of a given product made by a specified number of largest firms. Product ratios differ markedly from industry ratios only when the coverage or primary product specialization ratios are low. 6/

The number of companies declined in 17 of 25 food manufacturing industries between 1947 and 1958 (table 10). Declines of one-third or more took place in 5 industries--creamery butter, flour and meal, cereal breakfast foods, raw cane

^{4/} For "top level" concentration, the 4 largest firms must have 75 percent or more of total industry shipments and the 8 largest must have 90 percent or more. In "highly concentrated" industries, the 4 largest firms have 65-75 percent of industry shipments and the 8 largest 85 percent or more. In those with "high moderate" concentration, the 4 largest firms account for 50-65 percent of the total value of shipments and the 8 largest for 70 percent or more. See J. S. Bain, Industrial Organization (John Wiley & Sons, Inc., 1959), pp. 124-130.

^{5/} The 4 largest firms in the bread and related products industry had 20 percent of the national market in 1954. But in 23 States, over 50 percent of the market was taken by the 4 largest firms. Administered Prices: Bread, report of the Senate Subcommittee on Antitrust and Monopoly, (86th Congress, 2nd Session, 1960), Senate Report 1923, pp. 120-125.

^{6/} In 1954, a coverage of 28 percent and specialization of 83 percent in prepared meats gave a product ratio of 32 and an industry ratio of 16 for the 4 largest firms. A coverage of 45 percent and specialization of 71 percent in flour mixes gave a product ratio of 54 and an industry ratio of 73 for the 4 largest firms. Special dairy products had a product ratio of 49 and an industry ratio of 66. Product ratios for 1958 are based on the revised 1957 Standard Industrial Classification, so are not comparable with industry ratios for that year.

sugar, and soybean oil mills. One industry had no change during the period, while in 7 the number of companies increased. Large increases took place in the meat packing, prepared meats, and special dairy products industries.

Type of Organization

The 28 industry groups that manufacture domestic farm-produced food products had a total of 26,545 establishments in 1958. 7/ This was down 4 percent from the number in 1954 (table 11). The number of establishments operated by multiunit firms increased 21 percent from 1954 to 1958, while those operated as single-unit firms declined 10 percent. As a result, the proportion of the total operated by multiunit firms increased from 17 to 22 percent.

In each of 7 industries, multiunit firms operated more than one-half of the establishments in 1958. Between 1954 and 1958, the proportion of establishments operated by multiunit firms increased in all but 3 of the 27 industries for which data were available in both years. The shortening and cooking oils (including margarine) industry had the greatest increase -- going from 55 to 66 percent of the total. Other industries that had increases exceeding 5 percentage points were fluid milk, ice cream and frozen desserts, frozen fruits and vegetables, cereal preparations, wet corn milling, bread and related products, and cane sugar refining. 8/

The 28 industries contained 64 percent of the total establishments in the food and kindred products industry group in 1958. This larger group includes industries whose primary products are beverages, candy and confectionery products, seafoods, ice, prepared animal feeds, flavorings, and leavening compounds. From 1954 to 1958, the number of establishments. in the food and kindred products groups declined by 2 percent. But from 1947 to 1958, the number increased by 4 percent. The proportion of establishments in food and kindred products operated by multiunit firms went down from 24 percent of the total in 1947 to 17 percent in 1954 and then climbed to 22 percent in 1958.

Establishments operated by multiunit firms were larger than average in the food and kindred products industry. Establishments operated by multiunit firms accounted for 69 percent of the total value added by manufacturing in the industry in 1958. This percentage was up from 61 in 1947 and 65 in 1954.

^{7/} Based on the revised 1957 Standard Industrial Classification used in the 1958 Census of Manufacturers.

^{8/} The shift in ownership of the frozen fruit and vegetable industry may have been caused by the reclassification of establishment among industries between the 1954 and 1958 Censuses. A net gain of 123 establishments, 29 percent of the 1958 total, was caused by the reclassification. Other industries with large additions due to reclassification include poultry dressing plants, 102 establishments (8 percent); condensed and evaporated milk, 17 (5 percent); biscuits and crackers, 35 (10 percent); soybean oil mills, 19 (16 percent); and shortening and cooking oils, 14 (13 percent). Those with relatively large losses include natural cheese, 87 establishments (7 percent); special dairy products, 96 (90 percent); and pickles and sauces, 86 (14 percent).

Table 11.--Food manufacturing industries: Number of establishments classified by type of ownership and organization, 1954 and 1958

	:	Number of establishments Operated by: Organized								
Industry	Tota	al <u>l</u> /	Multi fir	unit	:	ngle firms	: Corpor		Noncor fir	
	1958	1954	1958	1954	1958	1954	1958	1954	1958	1954
Meat products	:									
Meat packing plants Prepared meats Poultry dressing plants	:1,494	1,316	338 169 235		2,463 1,325 998		1,184 802 538	1,099 674 464	1,617 692 695	1,268 642 845
Dairy products Fluid milk Creamery butter Natural cheese Condensed and evaporated milk Ice cream and frozen desserts Special dairy products	:1,058 :1,203 : 313 :1,382	1,262 1,419 359 1,587	1,060 146 246 222 395 30	711 172 263 244 343 47	957 91 987	1,090 1,156 115 1,244	2,508 235 375 248 800 73	2,367 526 467 289 883 144	3,308 823 828 65 582 34	4,322 736 952 70 704 43
Canning, preserving and freezing Canned fruits and vegetables Dehydrated fruits and vegetables Pickles and sauces Frozen fruits and vegetables Canned specialties 2/	: 161 : 619 : 426	148 717	476 53 122 152 44	464 49 140 75 <u>2</u> /	1,131 108 497 274 63	99 577	1,092 84 362 345 88	1,196 73 411 211 <u>2</u> /	515 77 257 81 19	562 75 306 55 <u>2</u> /
Grain mill products Flour and meal Cereal preparations Rice milling Blended and prepared flour Wet corn milling	: 43 : 72 : 117	803 46 80 131 58	194 24 23 25 22	175 22 25 25 25	620 19 49 92 37	24 55 106	385 37 54 81 46	436 40 57 88 46	429 6 18 36 13	367 6 23 43 12
Bakery products Bread and related products Biscuits and crackers		6,103 311	1,246 100	889 84		5,214 227	2,325 234	2,288 196	3,660 100	3,815 115
Sugar Raw cane sugar Cane sugar refining Beet sugar	: 28		15 24 62	13 18 59	35 4 4	5	35 28 66	39 22 64	15	10 1 1
Fats and oils Cottonseed oil mills Soybean oil mills	: 117	88	124 68 69	177 58 73		30	189 94 97	258 77 114	25 23 8	28 11 21
Miscellaneous industries Macaroni and spaghetti	: : 214	233	27	27	187	206	107	123	107	110
Total 28 industries	: :26,545	30,607	5,711	5,366	20,834	25,241	12,512	14,115	14,033	16,492
Food and kindred products	:									

^{1/} A change in classification of establishments among industries between 1954 and 1958 resulted in a net gain of 123 establishments in the frozen fruits and vegetables industry, 102 in poultry dressing, 17 in condensed and evaporated milk, 35 in biscuits and crackers, 19 soybean oil mills and 14 establishments in shortening and cooking oils industry. The change resulted in net declines of 87 establishments in the natural cheese industry, 96 in special dairy products and 86 in pickles and sauces.

^{2/} Canned specialties was a new industry classification in the 1958 Census. It includes plants manufacturing baby foods, soups (except sea food soups), "native foods," health foods, and other canned specialties.

^{3/} Includes data for margarine.

Compiled from Census of Manufactures, 1958 and 1954.

Ownership

Not much change took place in the type of ownership of food manufacturing establishments from 1947 to 1958. Corporate firms owned nearly half of the establishments in the 28 farm-food manufacturing industries in 1958, up l percentage point from 1954 (table 11). Two industries had only corporately owned establishments in 1958 -- cane sugar refining and beet sugar. In each of 17 other industries, corporations owned more than half of the establishments. Between 1954 and 1958, the proportion of corporately owned establishments increased in 14 industries, decreased in 12, and stayed the same in 1. Increases of 5 percentage points or more were made in 4 industries: poultry dressing, fluid milk, biscuits and crackers, and shortening and cooking oils. Decreases of 5 points or more were made in 5: creamery butter, special dairy products, flour and meal, raw cane sugar, and soybean oil mills.

The food and kindred products industry group had a few more establishments owned by corporate than noncorporate firms in 1958. The proportion owned by corporations rose from 49 percent in 1947 to 52 percent in 1958. Establishments owned by corporations were of larger average size than those noncorporately Those owned by corporations owned. made up 90 percent of the total value added by manufacturing in 1958, up from 89 percent in 1947. Individual proprietors owned most of the noncorporately owned establishments. Individuals owned 28 percent of all establishments in the food and kindred products group in 1958, but these establishments produced only 3 percent of the total value added by manufacturing. Partnerships owned another 16 percent of the establishments, with 4 percent of the value added. The remaining 4 percent of establishments with 3 percent of the value added were owned by cooperatives and other types of firms.



Growth Through Agricultural Progress

MARKETING FOOD DOMESTICALLY IN JAMAICA 1/

The attention of agricultural economists in the United States is: : turning increasingly to the agricultural problems of the underdeveloped : : areas of the world. Agriculture is the major industry presently in : : many of these countries, and its improvement and expansion will be : : one of the major avenues for increased income, exchange earnings, : : and probably employment in the years ahead. Although each developing : : country has certain unique components of its resources and setting, : : the island of Jamaica is faced with many of the same conditions and : : problems as are found in other islands of the Caribbean and in other : : areas of the world. 2/ Furthermore, Jamaica and the United States: : may be expected to develop increasing trade and cultural ties because : : of geographic proximity and because of the complementary nature : : of the agriculture of the two. Likewise, the Alliance for Progress: : may lead to further cooperative efforts by these two countries. Also, : : the economic ties between Jamaica and Great Britain -- of which : : Jamaica has been a colony for over two centuries -- may be expected : : to change with the independence of Jamaica within the British Common-: : wealth on August 6 and the prospective affiliation of the United Kingdom : : with the European Economic Community. This article deals mainly : : with agricultural marketing problems in the domestic market in Jamaica : : and the possibilities of making agriculture a more important element : : in the future growth of the country through improvements in marketing. : : Some of the methods discussed in this article already have been em- : : ployed elsewhere and may have application to conditions in other : : developing areas that are in transition from subsistence to commercial : : agriculture.

General Economy

The Jamaican economy has made remarkable progress since World War II, and during the 1950's real income per capita increased at a rate of about 6 percent (compounded) annually. Despite this growth, the level of per capita income is now less than 20 percent as high as in the United States, and the unemployed constitute about 15 percent of the labor force. Thus, many persons have not shared in the increased economic activity, although governmental

services pertaining to such matters as education and medical attention have been expanded significantly. Continued economic growth is the major need and goal of the country. Figure 1 shows the island of Jamaica.

A persistent problem with which the country is faced is the steady rise in population. Despite migration to England and

^{1/} Prepared by Winn F. Finner, who was FAO Marketing Advisor to the Jamaican Government in 1961, and Fred L. Faber, who studied poultry marketing in Puerto Rico. Both are agricultural economists of the Marketing Economics Division, Economic Research Service, USDA.

^{2/} The frequent similarity among underdeveloped countries with respect to agricultural marketing conditions has been referred to in several recent studies, e.g., Abbott, J. C., "The Role of Marketing in the Development of Backward Agricultural Economies," Journal of Farm Economics, Vol. 44, May 1962, pp. 349-362.



Figure 1

-- to a lesser extent -- other countries, the population in 1960 of 1.6 million was about a fifth larger than in 1950.

Increasing demand for food generated mainly by a growing population and rising incomes has maintained a steady upward pressure on food prices, which rose by over 60 percent between 1950 and 1961. Such increases are not unusual in economies undergoing significant expansion, but they can be deterrents to future growth both because of the increases in costs they represent and because of their severe impact on people with fairly fixed money incomes and on the unemployed.

Despite population increases, a high rate of unemployment, underutilized land on many farms, and a growing domestic demand for food, agricultural production has decreased. Exports of farm products have increased slightly, but imports of food for domestic use rose from about 20 percent of the total supply in 1950 to roughly 30

percent in 1960. Total agricultural output for both domestic use and export was 5 percent lower in 1959 than 5 years earlier.

The extent of future expansion of the Jamaican economy will depend to an important degree on changes in agriculture. Employment in agriculture is larger than in any other industry, and agricultural exports account for over 40 percent of all Agriculture, directly and inexports. directly, probably is the basis for over 40 percent of gross national product. Moreover, as suggested above, much of the resource base necessary for agricultural expansion is now available, although remedial measures will be needed if resources are to be employed effectively in agriculture.

To be sure, the quadrupling of tourism and the rise of Jamaica as the world's leading producer of bauxite during the past decade both are important developments,

as is the establishment of several new industries such as garment making. However, the attraction of investment capital has been difficult and painstaking, and the creation of substantially larger employment opportunities in nonagricultural occupations for the unemployed will be beset with major obstacles. Problems will be further aggravated if emigration is seriously curtailed by the recent legislation enacted by the British Government and by the continuation of severe entry restrictions by other countries to which Jamaicans might migrate. Such restrictions alone could lead to an increase of about one-third in the labor force over the next decade.

Thus, it is important that agriculture be improved and expanded. It is likewise important that this improvement be accomplished without: (1) Undue demands on investment capital; (2) unnecessary strains on foreign exchange; (3) a heavy demand on the funds of the Government of a poor country, which is faced with major needs for more schools, roads, port facilities, research activities, nutritional programs, and numerous other public services; and (4) technological changes in agriculture that will substantially add to unemployment for protracted periods. Condition four above might be modified, of course, were methods derived to share gains from technology among those displaced by it.

Agricultural Production

Jamaica is a country of small farms (table 12). There are almost 200,000 on 1.8 million acres. Seventy percent are of less than 5 acres, and over 95 percent do not exceed 25 acres. These small farms, in the aggregate, are the major source of domestically produced food crops for local consumption and produce three-fourths or more of the total output of most foods. Likewise, they are the major source of supply for most kinds of livestock except beef cattle.

Several characteristics of these small farms (25 acres or less) and the people who operate them can be identified.

In addition to being small, many farms are fragmented. The 195,000 small farms in 1958 consisted of over 350,000 parcels of land. Much of this land is extremely hilly and eroded from cultivation during the last 125 years or more. There is a substantial seasonal variation in rainfall over the Island, and most farms experience a shortage of water for crop production for periods of 2 to 8 months each year. Supplementing rain by irrigation is seldom practiced and would be extremely difficult on much of this land. These conditions lead to a seasonal pattern of crop production, much as in colder climates, and to the need for much hand labor in farming operations. Only simple mechanical equipment is used because of topographical conditions. About three-fourts of the small farms have neither mechanical nor animal power.

Less than 30 percent of the cultivated land is planted to a single crop at one time, and it is not unusual to find 10 to 15 different crops growing intermixed on small plots. This pattern aids in reducing erosion as several canopies of leaf cover -- ranging from breadfruit and mangoe trees to low-growing annuals -- are created. However, this also means that row culture is little practiced, which in turn creates distinct difficulties in using fertilizer, insecticides, and adopting other cultural improvements.

Production also is characterized by a wide variety of crop and livestock enterprises. Practically all enterprises conducted on farms in the United States (except for certain legumes and grains) are to be found in Jamaica, plus 100 to 150 products not grown commercially in the United States. Thus, agriculture yields small quantities of a wide variety of products, many of which are consumed on the farms where produced. Jamaica aptly is called "the land of samples."

The farmers who operate these lands generally are hard working, but they have

Table 12.--Number of farms, acreage in farms, and cultivated acreage, by size groups, Jamaica, 1958

Farm size groups :	Farms	Acreage	Cultivated acreage
<u>Acres</u>	Number	Acres	Acres
Less than 1 1 to 5 5 to 25 25 to 100 100 to 500 500 and over	42,900 98,324 53,300 4,012 639 314	22,000 248,681 546,300 176,872 130,994 697,796	15,900 158,760 223,800 35,973 24,591 153,642
Total <u>l</u> /	199,500	1,822,800	612,700

^{1/} Rounded.

little of the technical information or supplies needed for more efficient production. Even the existence of these would not overcome the difficulty posed by the small size of farms. Most farmers have had no technical training in agriculture, and it would not be easy with limited means to design an extension service to reach them effectively. This is particularly true because many of these farms are not on roads; they have no electricity, and battery-operated radios are few; there is no rural delivery of mail; and some of the farmers cannot read. Furthermore, this type of isolation from much of the world beyond the immediate community seems to produce a marked skepticism toward new methods and practices.

As a result of these conditions, farm income and assets are small. Many farmers have gross farm incomes of \$200 or less annually. Perhaps one-half of the operators have income from off-farm work, though this may be only for a few days per year at a daily wage of \$1.00 to \$1.25, unless they are skilled or obtain employment on a sugar estate. Likewise, current assets probably average less than \$50 per small farm.

With the abolition of slavery in 1838, acquisition of a small plot of land freehold was a lofty ambition for the freed slaves and one which many of them a-Now many rural Jamaicans chieved. consider practically any off-farm employment -- either in Jamaica or in countries to which Jamaicans migrate == superior to agriculture. Small-farm operators often report considerable difficulty in hiring labor. Agricultural employment is regarded as inferior because of low income potential and probably a low social status. Many individuals who could have become superior farmers have, in fact, moved to nonagricultural employment. Thus, there is not a well-developed middle class in agriculture which could provide the leadership for many of the needed improvements. Many production problems exist to their present degree, because there are almost 200,000 small farms rather than, say, 20,000 larger farms. 3/

In summary, the present supply of locally produced foods for domestic use comes from a large number of small farms, on which total production is tending downward despite average farm prices for many products being 25 to 50 percent

^{3/} A good recent treatment of peasant agriculture in a developing country is contained in: Edwards, David, An Economic Study of Small Farming in Jamaica, Institute of Social and Economic Research, University College of the West Indies, 1961.

higher than those received by U. S. farmers in recent years. Various production difficulties have resulted in yields that often are only about a fifth as large as in commercial production areas in the United States. The great diversity, seasonal variation, and small scale of production per farm, together with the difficulty of reach-

ing many farms, have accentuated the problems of marketing. These problems include assembling products, maintaining quality, establishing grade standards, developing and disseminating satisfactory market intelligence, and avoiding unusually wide swings in supply and, thus, in prices.

Present Marketing Conditions

Annual food consumption in Jamaica during 1958, the latest year for which data are available, approximated 1.8 billion pounds. Of this, 1.4 billion pounds were produced in Jamaica and 0.4 billion pounds were imported. Part of domestic production was consumed on farms where produced. Probably 0.5 billion pounds of goods were so used, leaving about 0.9 billion pounds that were produced and sold locally. Thus, the Jamaican internal marketing system handles about 1.3 billion pounds of goods annually. In addition, roughly 1.2 billion pounds of domestically produced commodities are exported, but this volume is not considered in the following discussion.

Diversity of Marketing Organizations

Several types of organizations are involved in marketing domestic food supplies, although most of these play a minor role.

The Jamaican Government conducts commercial trading in a wide variety of. food crops. During the war and immediately thereafter, these operations were sizable, partly because of purchases in the conduct of a price support program. Since then, the volume handled has declined -- as a percentage of total food supply -- and in 1960 accounted for less than I percent of the total. Government institutions are required to buy some of their foods from this trading agency, and sales also are made to food stores and other local buyers. The operations of this agency have been hampered, because it must comply with various governmental procedures concerning employment and financial controls.

Farm cooperatives were first estab= lished more than 100 years ago in Jamaica. However, as is also true in a number of other Caribbean Islands, they are not now important in the marketing of products for domestic consumption. Twenty-six cooperatives reported sales of food products locally in 1960, but their aggregate sales were less than I percent of the total food supply. Slightly over one-fifth -- 42,000 -- of all farmers in Jamaica sold some of their products through cooperatives during that year, but sales were less than \$8.00 per member. No doubt several basic changes will be needed before cooperatives can occupy a major position in the local Some producer groups, food economy. not organized as cooperatives, have become important in the sale of a few products such as eggs and broilers.

The Jamaica Agricultural Society -the largest farm organization -- also has
conducted marketing operations in the
local market, but these have been a minor
phase of the Society's activities, which
are oriented largely to informational and
extension work. Total sales are of roughly the same magnitude as those handled
by cooperatives.

Retail food stores seem to be handling a slightly increasing proportion of total domestic food sales and operators of some of these shops procure supplies directly from farmers. The substantial growth in number of supermarkets during the past decade has centered a larger volume of business in the hands of fewer merchants than was true earlier. And a few of the supermarket organizations have begun to make more systematic

arrangements with local farmers and other suppliers. Nevertheless, the bulk of the merchandise sold by retail food shops is imported.

Wholesalers and other dealers also function in the economy, accounting for a major portion of the foods imported. They procure fairly small quantities of locally produced foods from farmers, or the groups mentioned above, for resale to retail stores.

The predominant handler of domestically produced and consumed foods is a type of buyer known as a higgler, of whom there are several thousand. Higglers handle little poultry and meat, but they account for a major share of the fruits, vegetables, ground provisions (yam and other edible tubers), beans, peas, and other foods.

Higglers are of two principal types. One type both assembles and sells products, and the other specializes in re-The first type -- usually the tailing. wife of a farmer or other person living in the country -- assembles her products and those of her neighbors. transports these products (not infrequently a mile or more) usually by head carry or donkey to a main road over which a truck passes. Then she accompanies the produce on the truck to one of the markets on the Island. Here she may sell directly to housewives, to the second type of higgler, or to other buyers.

In Jamaica, there are 99 parochial markets. These are centers, established by the Government, where buyers and sellers can meet, and many higglers go to such markets to sell supplies. These markets usually have few facilities other than a roof, sometimes a cement floor, and perhaps a light or two. For the

payment of a fee =- usually 35 cents or less -- the higgler rents a few square feet of floor space, where she displays products until they are sold.

Other higglers make sales from houseto-house, on street corners, or in other locations apart from the established parochial markets.

Outside observers no doubt can detect numerous practices of higglers which are inconsistent with generally recommended marketing methods. Products are moved in small lots -- a higgler may spend 3 to 4 days per week in assembling and selling perhaps 100 pounds of produce. In order to minimize return hauling costs and for ease in handling, higglers frequently use bags rather than rigid containers, so damage to products in transit is likely to be greater than when rigid containers are used. Only rudimentary attention is given to grades, and the level of sanitation varies widely. Farmers may find higglers an unsatisfactory outlet, particularly in seasons of large production, because they may buy only part of the supply that is ready for market. Also, higglers generally prefer to handle products with a high value per pound.

Despite these conditions, however, the higgler system will not be easy to replace and may be expected to function with vitality for another generation or more. Higglers have become exceedingly adept at cultivating the goodwill of both suppliers and customers. They have amassed a considerable knowledge of what can and cannot be handled profitably. Higglers have provided a level of competition which has thwarted attempts to introduce "more modern" methods. 4/

^{4/} A recent detailed study of the operations of 5 higglers buying from farmers and retailing in the largest city in Jamaica showed the following weekly averages per higgler for a year: Sales, \$19.28; cost of transportation and market fees, \$1.72; payments to farmers for produce, \$13.62; income to higgler for several days labor plus capital use, \$3.94. Thus, farmers received slightly over 70 percent of the retail sales value of their products. (From Katzin, Margaret F., Higglers of Jamaica, Unpublished Ph.D. thesis, Northwestern University.)

They are not equipped, however, to: (1) Handle the large volumes such as required by supermarkets; (2) provide a dependable source of the quality of product demanded by hotels and similar buyers, including the export market; and (3) handle seasonal surpluses through storage, processing, or through coordination of production plans with prospective markets.

Facilities

Facilities are available for several marketing operations, including local transportation (where roads are available), cool and cold storage, canning, and pasteurizing. There are numerous instances, however, where costs could be reduced by using improved equipment such as a machine are rather than hand labor are for peeling of citrus for canning. Perhaps of greater importance than the type of technology used is the need for improving the management of present marketing resources and increasing the level of skills for many marketing jobs such as meat cutting.

Many observers contend that facilities are seriously inadequate, either because of the lack of sanitary safeguards or because they are lacking for certain operations. Livestock slaughtering facilities may be cited as an example of the first. Much slaughtering is done with the simplest of equipment and with no refrigeration for the handling of meat. Particularly in rural areas, the measures taken to protect wholesomeness generally are substantially lower than, for example, in the United States. Major improvements will be needed if Jamaican meats are to compete effectively with imported supplies in the growing "quality market." However, the bulk of the meat is sold to middle- and low-income consumers, and there is little evidence of a demand from this group for higher standards of sanitation or of a willingness to pay the higher prices associated with such standards.

Likewise, it is true that equipment may not be available for a number of operations such as the washing, sizing, and waxing of cucumbers for export. Yet, the high irregularity both from season to season and year to year in the demand for such services raises pronounced difficulties for firms attempting to supply them.

Retailing facilities are now undergoing significant improvement through growth in the number of supermarkets -- both chains and independents. Nevertheless, the bulk of the country's retail food shops are still very small and charge prices which are ralatively high.

One of the most serious service inadequacies is that of ocean-going shipping, except for a few of the well-established export crops.

Marketing Information

Prices and other marketing conditions obviously are of major importance in a country where agriculture is the major industry. Much market intelligence is informally disseminated through the Island by truckers, higglers, and others. However, for domestic food crops no objective market information is systematically available. Furthermore, the lack of grading systems and the wide variety of weights and measures used are problems that will need to be overcome, if a satisfactory market news system is to be estab-Likewise, better methods will lished, need to be developed for disseminating Otherwise, the consuch information. siderable and irregular price differentials among various markets in the country are likely to continue, and agricultural decisions generally will continue to be based on fragmentary knowledge.

Pricing Practices

In the sale of domestic food crops, producers usually do not receive price premiums for superior quality. Cooperatives and other farm groups generally sell products in lots, which include all receipts from participating farmers, and the same price is paid to all farmers. Much the same conditions exist in sales by individual farmers. Some buyers, of course, attempt to procure

all supplies from particular farmers known to have products of above-average quality and uniformity. And higglers may be selective in choosing the produce they will buy from a particular farmer. However, the premiums associated with such purchases may be nonexistent or vary considerably. Approximately the same situation occurs in livestock sales, although price differentials associated with age and type of animal are fairly common.

There are no established grades for fresh products sold domestically, and this condition will need to be changed before a satisfactory system of selling by grade can be established. Much greater progress has been made in export sales, where quality differentials customarily are paid by foreign buyers.

A second pricing condition which dampens producer incentives is the slowness with which payment is made by some buyers. Delays of 6 to 8 weeks or more between the date of delivery and final payment are not unusual.

Thinness of Market for Some Products

Ten to 15 products constitute the major foods in the diet of most Jamaicans. This diet is mainly cereals, yam and other tubers, banana, sugar, and fish. Most other products are consumed in much smaller volume. The total supply of many fresh vegetables, for example, sold in a particular season could be grown on less than 20 acres producing commercial-yields. Sales of vegetables harvested on a few more or less acres can have a pronounced impact on prices, as can fluctuations in yields because of weather variables. The same general conditions characterize the present market for many other products, i.e., small changes in quantities offered can mean sharply higher or lower prices. true that use can be made of shortterm storage to lessen the adverse impact on price of an unusually large supply. However, the low level of consumption throughout much of the year and competition from other products during periods when there would be out-of-storage movements both suggest only a moderate role for storage programs for many commodities. Cold storage charges of slightly over 1 cent per pound per month operate to reinforce this conclusion. Some means of more systematically relating planting to anticipated sales in the domestic market would appear to be a more fruitful way of dealing with this problem.

Marketing Costs

Marketing costs tend to be high, although there is much variation among products and processes. In some cases, rather substantial reorganization will be needed to achieve any significant cost reduction. It is difficult, for example, to see how higglers could lower the cash costs they incur in assembling products and transporting them to consumption Higglers are limited in the centers. quantity they can handle physically and usually have no alternative to shipping by commercial truck. It would be possible, nevertheless, to achieve lower transportation (other than assembly) costs by the movement of full truck loads in single lots from country points rather than to have numerous individual lots of 100-200 pounds, each in separate packaging, transported as is now done. Likewise, retailing margins may be reduced as the numerous small shops are partially replaced by much larger stores.

In the meantime, prospects are not favorable for reductions in total costs incurred by higglers in assembling and retailing products. Likewise, cost reduction in livestock slaughter seems unlikely, although further centralizing of slaughtering might enable greater returns from byproducts. These returns might offset the likely higher plant costs of operating under higher standards.

On the other hand, it should be possible to lower marketing margins (and perhaps costs) in the sale of fluid milk, particularly if the volume of sales is expanded. The margins between prices received by farmers -- 11 to 12 cents

per quart -- and paid by consumers -- 23 to 26 cents per quart -- are fairly similar to those prevailing in eastern United States cities. However, fewer services are provided in Jamaica. Little milk is homogenized or pasteurized, second-hand rum bottles frequently are used as containers, and usually no refrigeration is provided. Most milk is produced within a few miles of consumption, so that transportation costs are low relative to those in major United States markets.

Margins (and to some extent costs) in the handling of imported foods appear high, and the Jamaican Government controls retail prices of a few imported foods. Typically, only a single agency imports a particular brand of food.

Marketing costs incurred by governmental organizations also are susceptible to reduction partly through lowered administrative and fixed costs. These organizations, like most firms, suffer from a volume which is too small. Larger volumes would permit lower unit costs to such organizations, as well as to firms engaged in processing and storing. It is not uncommon for importers to store U. S.-purchased foods in the United States, rather than in Jamaica until needed, because of the lower storage rates prevailing in this country.

Prices of most inputs such as cans, other packaging, transport equipment, and motor fuel are higher in Jamaica than in the United States, but labor rates are substantially lower. Much of the labor employed by marketing firms is paid \$1.50 to \$2.00 per day.

Direction of Marketing Improvements

Improvements in marketing alone cannot rectify agricultural shortcomings in Jamaica or in other developing areas. a fully efficient agriculture is to be developed, shortages of water, electricity, and other resources must be remedied. Technical knowledge must be improved. Defects in the land tenure system, such as those enabling increases in income to be channeled largely to landowners rather than operators, must be corrected. Also, deficient credit and tax systems must be revised. Programs for improving and broadening education, of course, will be of major importance to the entire economy. Nevertheless, marketing improvements can play a major role in producing benefits for consumers and incentives for producers. The absence of marketing improvements probably will largely nullify other measures taken to strengthen agriculture. Jamaica obviously requires a unified program to improve conditions in production and marketing.

The principal improvements required in marketing to provide broader pro-

ducer incentives for small farmers appear to be:

1. Better appraisal of market prospects for agricultural products.

A major present difficulty is that too many products are produced in too small quantity. This situation leads to several difficulties.

First, extremely diverse research programs need to be conducted concerning appropriate varieties and cultural techniques for scores of farm enterprises. Even in a country as small as Jamaica, findings suitable for one area, may not be appropriate for other areas.

Second, an extension service needs to be trained and staffed to relay the resulting wide variety of technical information to farmers.

Third, widely diversified marketing facilities need to be maintained for inspection, grading, processing, and other activities, many of which will be conducted for only short periods during each year.

Fourth, the problem of developing satisfactory market appraisals and intelligence are made much more difficult by the diversity of enterprises.

Fifth, farm income is lower than if production were centered in those few enterprises having the highest comparative advantage.

These problems could be materially reduced if production were centered on a smaller number of products. analyses of prospective price levels for different products at various levels of supply and in different markets would enable a major improvement in the selection of products in which Jamaica has a comparative advantage. analyses and information on production conditions would provide the bases for recommending the relatively few enterprises in which farmers should specialize. In time, these analyses should aid in the further shift from subsistence to commercial agriculture and should moderate the view that Jamaica should produce practically all the food it consumes. This view now often finds expression in import controls and other governmental regulations.

2. Establishment of an organization to give systematic and continuing direction to marketing improvement.

Specifically, this organization should aim at: (1) Providing a stable and continuing outlet for produce of marketable quality, the production of which is economically justified; (2) reducing marketing costs; (3) coordinating its marketing efforts with those concerning production. No doubt the organization would require modest governmental financial assistance in the beginning, and it should be organized so as to have the flexibility necessary to conduct commercial operations effectively.

As indicated earlier, the present marketing system is not prepared to purchase all output in some seasons, even when profitable export or other markets may It is not supplying the growing market of hotels and other buyers of premium produce (perhaps about 10 percent of the total market at present), with the result that much of this supply The marketing system is is imported. not consistently serving the low income market as effectively as it might. As a result, outlets for many locally grown products are not as large as they might be, and a persistent and widely expressed view among farmers is that they would not be able to sell additional production.

A well-directed organization should be able to bring about a greater degree of price stability through better use of storage, domestic nutritional programs, and perhaps processing. Primarily it might help through the development of export markets for a few additional products.

Adoption of a grading program (including the necessary enabling legislation) and reflection of quality differentials in prices paid to farmers should enhance prospects of meeting a larger part of the growing domestic demand for certain foods from Jamaican production. This should result in economic benefits to farmers without additional costs to consumers.

The proposed organization should be able to reduce the costs of marketing through development of large-scale operations, selective installation of new equipment, introduction of a wide variety of well-known practices such as the use of plastic liners in storage containers and proper ripening practices for bananas. The assignment of much greater responsibility to employees could reduce labor use per unit of product. It is not unusual, for example, for several employees to accompany a delivery truck, one to ascertain quantity, one to handle payments, one to drive, and others to do the necessary physical handling.

This organization should be able to aid in a better coordination of production with prospective markets through such means as contract production. As a means of more quickly developing a satisfactory volume, it also might interest a few estate operators in production of selected commodities.

3. Expanding the research program.

Modest increases in research and statistical programs relating to marketing would aid greatly. These should yield improved basic data and evaluations of specific marketing alternatives, programs, and prospects; and better current information for such purposes as establishing a market intellegence service.

4. Consolidating governmental activities.

General advantages of economy and consistency would be expected from consolidation of governmental activities pertaining to agriculture.

If adopted, how significant would the foregoing be in improving the output and efficiency of Jamaican agriculture and in accomplishing related benefits concerning employment, income, and foreign exchange balances? Economic incentives are more meaningful to a commercial agriculture than to an agriculture still bearing a strong imprint of subsistence farming. This is particularly so of a subsistence agriculture that has lost social status and in which many operators have exceedingly sparse resources. Nevertheless, the operators of these farms are, economic men who will respond to a changing economic environment as they will to their increased political freedom. However, they probably will not permit economics or politics to affect their daily living as much now as perhaps will be true a generation hence.

ADVERTISING EXPENDITURES BY FOOD MARKETING CORPORATIONS 1950, 1951, AND 1953-61/1/

This report presents annual data for 1950, 1951, and 1953-61 on advertising dollars spent by food manufacturing, wholesaling, and retailing corporations, and through 1959 for specific food manufacturing industries. Information concerning advertising expenditures by food manufacturing, wholesaling, and retailing corporations (1947-51 and 1953-56) was published originally in the January 1960 issue of this Situation. Data on advertising expenditures of specific food manufacturing industries (1947-51 and 1953=57) were presented in the July 1960 issue.

Total advertising expenditures by food manufacturing and wholesaling corporations show a continued upward trend (table 13), but the proportions accounted for by manufacturing and wholesaling continue to fluctuate. Manufacturers' expenditures for advertising fell from a high of 78 percent of the total in 1950 to 73 in 1957; then rose to 76 in 1.959. They are estimated to have declined to about 75 percent in 1960 and 1961. The wholesaling sector accounted for 8 percent of the total in 1959, compared with 12 percent in 1951 and is estimated to have dropped to about 7 percent in 1960 and 1961.

Table 13.--Expenditures for advertising food and kindred products by manufacturing, wholesaling, and retailing corporations, 1950-51 and 1953-61

:		Tÿpe o	f firm	Percentage of total expenditures						
Year	· Whole- · Ketail- ·		Total	Manu- factur- ing	Whole- : saling :	Retail-: ing :	Total			
	Million dollars	Million dollars	Million dollars	Million dollars	Percent	Percent	Percent	Percent		
1950: 1951:	470.1	64.8 70.3	60.2 69.1	560.1 609.5	78 77	11 12	11 11	100 :100		
1953 1954 1955 1956 1957 1958 1959 1960 2/ 1961 2/	558.4 610.9 688.3 724.0 758.9 782.6 917.5 907.2	78.5 78.8 75.3 84.8 95.4 95.4 88.9 85.0	91.7 106.4 135.7 167.4 183.4 184.6 194.7 221.8 266.7	728.6 796.1 899.3 976.2 1,037.7 1,062.6 1,201.1 1,214.0 1,456.8	77 77 74 73 74 76 75	11 10 8 9 9 9 8 7	12 13 15 17 18 17 16 18	100 100 100 100 100 100 100		

^{1/} Data for 1952 are not available.

^{2/} Figures for 1960 and 1961 are preliminary estimates.

^{1/} Prepared by Mrs. Toledo Chumley, Marketing Economics Division, Economic Research Service, USDA.

Table 14.--Advertising expenditures by corporations manufacturing food and kindred products, by industry group, 1950-51 and 1953-59 $\underline{1}$ /

Industry group	1950	1951	1953	1954	1955	1956	1957	1958	1959
	: Mil. dol.	Mil.							
Bakery products	56.9	62.8	72.8	75.4	92.2	97.5	111.1	111.4	121.3
and seafoods Confectionery		64.7 38.8	80.4 39.6	91.3 42.5	106.9	110.9	112.4 54.2	128.9	145.4 67.8
Dairy products	: 25.3	65.3 28.3	70.9	80.3	87.0	91.5 25.6	78.1 26.0	124.3	136.0
Grain mill products 3/ Meat products Sugar	: 51.5	25.0 50.0 2.9	36.8 61.5 2.9	36.3 72.7 2.9	39.9 75.3 3.5	33.4 86.5 3.8	31.0 88.5 4.2	77.8 72.1 5.1	134.5 80.3 5.0
Food and kindred products not allocable	69.2	63.6	83.7	87.9	102.6	104.8	115.2	119.9	128.9
Other food and kindred products Total	:	68.7 470.1	91.1	610.9	688.3	724.0	138.2 758.9	82.4 782.6	98.3 917.5
10041	• • • • • • • • • • • • • • • • • • • •	1,7001		010.)		727.0		702.0)±1•J

^{1/} Based on data from the Internal Revenue Service Source Book. Data for 1952 are not available. Data for 1958 and later years reflect important changes in classification. Dairy corporations previously classified in Retail or Wholesale Trade or Trade Not Allocable were transferred into the proper manufacturing classification, if they had even a small degree of processing in their operations. Thus, 2,277 dairy companies were transferred from trade to dairy manufacturing in 1958. Within the manufacturing industry group, classification changes affected to a lesser magnitude the baking, cereal preparations, and grain mill products industries.

2/ Cereal preparations included in grain mill products in 1958 and 1959. Cereal preparations represented about 25 percent of the total before the adjustment for animal feed.

3/ Excludes animal feed.

In contrast, expenditures by retailing corporations increased steadily, rising from 11 percent of total advertising expenditures by food marketing corporations in 1950 to an estimated 18 percent in 1961. Changes in food advertising expenditures at retail reflect simultaneous changes in the numbers and size of corporations retailing food. The actual number of corporations retailing food increased by about 6,000 from 1950 to 1959. 2/ In 1948 corporations accounted for about 40 percent of the total retail food sales and by 1958 they accounted for 54 percent. 3/ These figures also reflect an increased emphasis of adver-There is tising at the retail level. evidence that this upward trend will continue. If the number of these stores in suburban areas increases substantially

relative to density of population, more extensive retail advertising may be anticipated.

Most food manufacturing industries more than doubled their expenditures for advertising in 1950-59 (table 14). Of particular note are increases by the bakery products, canned fruits, vegetables and seafoods, and dairy products industries. In each of these industries, there has been an increasing adoption of advertising, especially in metropolitan areas.

There is little likelihood that total food advertising expenditures will lessen. Data available do not enable any estimate of the extent of effectiveness of these expenditures in accomplishing objectivies.

^{2/} Internal Revenue Service.

^{3/} U. S. Bureau of the Census, Census of Business.

Table 15 .- Farm food products: Retail cost, farm value of equivalent quantities sold by producers, byproduct allowance, farm-retail spread, and farmer's share of retail cost, April-June 1962 $\underline{1}$ /

		:	: :		: :		: :	
Product <u>2</u> /	Farm equivalent	Retail unit	Retail cost	Gross farm value	Byproduct: allowance:	Net farm value	Farm-retail:	Farmer's share
			Dollars	Dollers	Dollars	Dollars	<u>Dollars</u>	Percent
Market basket 3/			1065.56			403.48	662.08	38
Meat products			277.72			144.27	133.45	52
Dairy products		Average	198.41			85.82	112.59	43
Poultry and eggs		quantities :	80.53			46.73	33.80	58
Bakery and cereal products All ingredients Grain		per urban : wage-earner : and :	169.98	26.87	2.49	31.52 24.38	138.46	19 14
All fruits and vegetables	•	clerical- : worker : family : in 1952 :	250.21 155.73 79.16			76.10 56.31 26.99	174.11 99.42 52.17	36 36 34
vegetables			94.48			19.79	74.69	21
Fats and oils			43.80			11.80	32.00	27
Miscellaneous products			44.91			7.23	37.68	16
			<u>Cents</u>	Cents	Cents	Cents	Cents	Percent
eef (Choice grade)emb (Choice grade)ork (retail cuts)	2.36 lb. lamb	Pound : Pound : Pound :	80.5 70.6 57.8	54.6 41.9 34.2	4.8 6.5 4.4	49.8 35.4 29.8	30.7 35.2 28.0	62 50 52
utter	Milk for American cheese Cream and milk Milk for evaporating	Pound 1/2 pound 1/2 gallon 1/4-1/2 ounce can Quart	75.0 36.3 85.9 15.6 24.9		 	54.1 14.2 <u>4</u> /22.4 6.1 10.4	20.9 22.1 63.5 9.5 1 ⁴ .5	72 39 26 39 42
hickens, frying, ready-to-cook		Pound : Dozen :	39.9 47.2		 	19.8 30.4	20.1 16.8	50 64
read, white All ingredients Wheat reckers, soda om flakes com meal lour, white	: .882 lb. wheat 1.38 lb. wheat 11.57 lo. white corn 11.34 lb. white corn 16.9 lb. wheat	Pound Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounds Pounces Pounds Pounces Pounds Pounces Pounds Pounces Pounds Pounces Pounds Pound Poun	21.1 31.0 26.9 14.0 56.7 23.6	2.9 4.5 3.4 2.9 22.6 4.8	.2 .4 .8 .3 2.0	3.2 2.7 4.1 2.6 2.6 20.6 4.1	17.9 26.9 24.3 11.4 36.1	15 13 13 10 19 36 17
pples rapefruit caons	:1.04 grapefruit :1.04 lb. lemons	Pound : Each : Pound : Dozen :	18.0 13.0 19.2 77.3			6.7 2.1 4.4 20.4	11.3 10.9 14.8 56.9	37 16 23 26
Beans, green	: 1.10 lb. cabbage : 1.06 lb. carrots : 1.11 lb. celery : 1.41 lb. lettuce : 1.06 lb. onions :10.42 lb. potatoes : 1.12 lb. sweetpotatoes	Pound Pound Pound Pound Pound Pound Pound Pound 10 pounds Pound Pound Pound Pound	30.6 14.6 15.4 17.4 21.0 13.8 65.7 17.3 33.6	 	 	12.5 4.8 5.4 6.6 6.7 4.8 20.1 7.4	18.1 9.8 10.0 10.8 14.3 9.0 45.6 9.9 22.0	41 33 35 38 32 35 31 43 35
Peaches, canned	5.83 lb. Fla. oranges for canning 11.89 lb. Calif. cling 15. 35 lb. Mich. dry beans 12.49 lb. sweet corn 16.69 lb. peas for canning 16.69 lb. peas for canning 16.69 lb. sweet corn 16.69 lb. peas for canning 16.69 lb. peas	. 46 ounce can No. 2-1/2 can 16 ounce can No. 303 can No. 303 can	33.0 14.9 20.0		 	13.1 6.4 2.2 2.3 2.9	29.6 26.6 12.7 17.7	31 19 15 12 13
omatoes, canned	:1.84 lb. tomatoes for : processing	No. 303 can	15.8			2.7	13.1	17
	frozen concentrated juice	6 ounce can :	20.7			8.2	12.5	40
	processing	10 ounces	27.2			6.0	21.2	22
	processing	9 ounces	22.7			4.2	18.5	19
eas, frozen	: :1.00 lb. Mich. dry beans	: 10 ounces : : Pound : Pound :	20.9 17.3 41.4			3.1 6.4 16.1	17.8 10.9 25.3	15 37 39
argarine, colored	Soybeans, cottonseed, and	:	28.7			7.4	21.3	26
eanut butter		Pound Pound :	57.4			20.9	36.5	36
alad dressing egetable shortening	and eggs	Pint : 3 pounds :	38.3 91.0			6.5 26.5	31.8 64.5	17 29
orn sirup	: 1.90 lb. corn	: 24 ounces : 5 pounds :	27.3 58.3	3.5 20.8	.7 1.0	2.8 <u>5</u> /19.8	24.5 <u>5</u> /38.5	10 <u>5</u> /34

^{1/} The methods of calculation and the sources of price data are given in Part II of "Farm-Retail Spreads for Food Products," U. S. Dept. Agr. Misc. Pub. 7/1, 1957.

2/ Product groups include more items than those listed in this table. For example, the meat products group includes veal and lower grades of beef in addition to carcass beef of Choice grade, lamb, and pork.

3/ Market basket total may differ slightly from sum of product group totals because of rounding of averages.

4/ Farm value of cream and milk only.

5/ Net farm value adjusted for Government payments to producer was 24.2 cents, farm-retail spread adjusted for Government processor tax was 35.8 cents and farmer's share of retail cost based on adjusted farm value was 42 percent.

Table 16.- Farm food products: Retail cost and form value, April-June 1962, January-March 1962, April-June 1961, and 1947-49 average 1

		: Retail cost :						Net farm value 3/					
					:	Percentage AprJu		A-2	: Tox	A.D.W.	: :	Percentag AprJu	
Product 2/	Retail unit	oune.	Jan Mar.	June	1947-49:		<u>m:</u>	June	Jan Mar.	June	:1947-49:_ :average:	fro	m -
		1962	1962	1961			June :	1962	1962	1961 <u>4</u> /		Mar: 1952 :	
		Dollars	Dollars	Dollars	Dollars	Percent	Percent	Dollars	Dollars	Dollars	Dollars	Percent	Percent
Market basket 5/) (1,065.56	1,062.02	1,062.43	940.09	<u>6</u> /	<u>6</u> /	403.48	<u>4</u> /413.78	399.77	466.02	-2	1
Meat products) (277.72	278.09	276.22	256.08	<u>6</u> /	1	144.27	<u>4</u> /148.03	136.34	170.90	-3	6
Dairy products	}	198.41	202.65	200.38	169.28	-2	-1	85.82	<u>4</u> /90.44	87.64	91.66	- >	- 2
Poultry and eggs) Average ()quantities () purchased (89.52	82.96	117.01	-10	- 3	46.73	54.23	48.66	80.69	-14	-4
Bakery and cereal products: All ingredients) per urban ()wage-earner(:	169.56	167.73	121.96	<u>6</u> /	1	31.52 24.38	<u>4</u> /30.78 23.02	29.38 21.24	34.97 24.96	2 6	7 15
All fruits and vegetables: Fresh fruits and vegetables: Fresh vegetables:) clerical- () worker () family (250.21 155.73 79.16	233.51 137.35 71.37	246.35 148.19 70.99	103.91	7 13 11	2 5 12	76.10 56.31 26.99	4/70.57 49.97 23.83	75.98 53.60 22.01	60.93 42.91 22 .97	8 13 13	<u>6/</u> 5 23
Processed fruits and : vegetables	}	94.48	95.16	98.16	_	-2	-14	19.79	<u>4</u> /20.60	22.37	_	- j+	-12
Fats and oils	{	43.80	43.81	43.82	52.21	<u>6</u> /	<u>6</u> /	11.80	12.58	14.64	19.84	-6	- 19
Miscellaneous products	; :	44.91	44.89	44.97	38.87	<u>6</u> /	<u>6</u> /	7.23	<u>4</u> /7.15	7.13	7.03	1	1
		Cents	Cents	Cents	Cents	Percent	Percent	Cents	Cents	Cents	Cents	Percent	Percent
Beef (Choice grade)	Pound	80.5 70.6 57.8	80.6 67.4 57.9	79.1 64.6 58.3	68.5 63.9 59.4	<u>6/</u> 5 <u>6</u> /	2 9 -1	49.8 35.4 29.8	½/50.8 32.2 30.7	44.8 32.5 30.3	48.5 44.2 39.7	-2 10 -3	11 9 -2
Butter	1/2 pound 1/2 gallon 1/2 ounce can	75.0 36.3 85.9 15.6 24.9	76.1 36.3 86.3 15.8 25.6	76.3 36.4 86.6 15.9 25.1	79.4 29.8 13.7 20.1	-1 0 <u>6/</u> -1 -3	-2 6/ -1 -2 -1	54.1 14.2 7/22.4 6.1 10.4	4/55.8 15.1 4/7/23.5 6.5 11.0	54.3 15.0 <u>7</u> /23.1 6.6 10.5	59.3 16.0 7.1 10.6	-3 -6 -5 -6 -5	6/ -5 -3 -8 -1
Chickons, frying, ready-to-cook:		39.9 47.2	41.9 54.7	38.9 50.6	66.7	-5 -14	3 -7	19.8 30.4	22.3 35.9	19.0 33.1	48.0	-11 -15	14 -8
Bread, white All ingredients Wheat Crackers, Soda Corn flakes Corn meal Flour, white Rolled oats	Pound Pound Pound Pound Pound Pound	21.1 : 31.0 : 26.9 : 14.0 : 56.7 : 23.6	21.1 30.9 26.9 13.6 56.5 22.9	20.9 29.1 26.1 13.2 56.3 22.4	13.5 17.1 11.8 48.4 14.5	0 6/ 0 3 6/ 3	1 7 3 6 1	3.2 2.7 4.1 2.6 2.6 20.6	3.1 2.5 3.9 2.7 2.8 19.2 4.0	2.9 2.3 3.5 2.5 2.6 17.8	3.3 2.7 3.2 3.6 21.0 4.9	3 8 5 -4 -7 7 3	10 17 17 4 0 16
Apples Grapefruit Lemons Oranges		: 18.0 : 13.0 : 19.2 : 77.3	14.3 12.2 19.4 76.9	19.6 12.0 19.9 78.6	11.9 8.5 17.7 46.6	26 7 -1 1	-8 8 -4 -2	6.7 2.1 4.4 20.4	5.5 1.9 4.6 24.7	7.6 1.7 4.9 28.5	1.4 5.7 12.6	22 11 -4 -17	-12 24 -10 -28
Beans, green Cabbage Carrots Celery Lettuce Onions Potatoes Sweetpotatoes Tomatoes	Pound Pound Pound Head Pound 10 pounds Pound	30.6 14.6 15.4 17.4 21.0 13.8 65.7 17.3 33.6	28.2 11.2 15.0 15.6 18.3 13.6 56.6 15.5 32.4	25.3 9.3 16.7 13.1 16.1 10.3 66.2 17.4 31.9	21.1 6.9 11.1 14.5 8.4 51.9	9 30 3 12 15 1 16 12	21 57 -8 33 30 34 -1 -1	12.5 4.8 5.4 6.6 6.7 4.8 20.1 7.4 11.6	10.7 3.9 3.6 6.2 6.9 6.1 12.0 6.1 13.5	10.1 2.4 5.2 3.8 4.6 3.8 17.9 7.3	9.3 1.9 4.0 6.3 3.7 25.6 4.8	17 23 50 6 -3 -21 68 21 -14	24 100 4 74 46 26 12 1
Orange juice, canned	No. 2-1/2 can : 16 ounce can : No. 303 can : No. 303 can	33.0 14.9 20.0 22.4	46.0 32.7 14.9 20.1 22.3 15.8	48.7 33.6 14.9 20.7 22.0 16.1	31.5 16.7 21.4 14.2	-7 1 0 6/ 6/ 0	-12 -2 0 -3 2	13.1 6.4 2.2 2.3 2.9 2.7	14.2 4/6.4 2.2 2.3 2.9 2.7	19.2 5.3 2.1 2.3 3.0 2.4	5.3 2.7 3.0 2.6	-8 0 0 0	-32 21 5 0 -3 13
Orange juice concentrate, frozen: Strawberries, frozen Beans, green, frozen Peas, frozen	10 ounces 9 ounces	20.7 27.2 22.7 20.9	23.1 27.1 22.8 20.7	25.2 26.9 23.1 21.0	=	-10 6/ 6/ 1	-18 1 -2 <u>6</u> /	- 8.2 6.0 4.2 3.1	10.2 6.0 4.2 3.1	11.5 7.3 4.4 2.9	=	-20 0 0 0	-29 -18 -5 7
Dried beans (navy) Dried prumes		17.3 41.4	17.3 41.6	16.8 41.6	19.9 23.1	0 <u>6</u> /	3 <u>6</u> /	6.4 16.1	6.1 16.1	6.0 19.0	9 .7 8.8	5 0	7 -15
Margarine, colored	Pound Pint	28.7 57.4 38.3 91.0	28.9 56.7 38.4 90.9	28.8 55.9 37.2 91.3	39.7 37.8 105.6	-1 1 6/ <u>6</u> /	6/ 3 3 6/	7.4 20.9 6.5 26.5	8.0 20.5 7.0 28.7	9.9 19.5 7.9 3 ⁴ .9	12.2 10.0 46.2	-7 2 -7 -8	-25 7 -18 -24
Corn sirup		27.3 58.3	27.2 58.3	27.0 59.2	48.4	6/ 0	1 -2	2.8 19.8	2.5 <u>4</u> /19.8	2.7 19.8	19.4	12 0	Q 0

^{1/} The methods of calculation and the sources of price data are given in Part II of "Farm-Retail Spreads for Food Products," U. S. Dept. Agr. Misc. Pub. 741, 1957.

2/ Product groups include more items than those listed in this table. For example, the meat products group includes veal and lower grades of beef in addition to carcass beef of Choice grade, lamb, and pork.

3/ Gross farm value adjusted to exclude imputed values of byproducts obtained in processing.

4/ Most farm value figures for April-June 1961 have been revised; figures in other columns revised as indicated.

5/ Sum of product groups may differ slightly from market basket total because of rounding of averages.

6/ Less than 0.5 percent.

7/ Farm value of cream and milk only.

Table 17 - Farm food products: Farm-retail spread and farmer's share of the retail cost, April-June 1962, January-March 1962, April-June 1961, and 1947-49 average $\underline{1}/$

			Farm-retail	spread 3/			Farmer's				
Product <u>2</u> /	Retail umit	Apr June	Jan Mar c h	Apr June	1947-49	AprJui	ne 1962 m -	Apr June	Jan Mar.	Apr June	1947-49 average
		1962	1962 <u>4</u> /	1961 <u>4</u> /	average			1962	1962	1961	
		Dollers	Dollars	Dollars	Dollars	Percent	Percent	Percent	Percent	Percent	Percent
Market basket 5/) (662.08	648.24	662.66	474.07	2	<u>6</u> /	38	39	38	50
Meat products))	133.45	130.06	139.88	85.18	3	- 5	52	53	49	67
Dairy products) Average (112.59	112.21	112.74	77.62	<u>6</u> /	<u>6</u> /	43	<u>4</u> /45	44	54
Poultry and eggs			35.29	34.30	36. 32	-4	-1	58	61	59	69
Bakery and cereal products All ingredients Grain	:) and (138.46	138.78	138.35	86.99	<u>6</u> /	<u>6</u> /	19 14	18 14	18 13	29 20
All fruits and vegetables Fresh fruits and vegetables Fresh vegetables	:) family (174.11	162.94 87.38 47.54	170.37 94.59 48.98	123.75 61.00 30.20	7 14 10	2 5 7	30 36 34	30 36 33	31 36 31	33 41 43
Processed fruits and vegetables	:) (74.69	75.56	75.79		-1	-1	21	21	23	
Fats and oils	:) (32.00	31.23	29.18	32.37	2	10	27	29	<u>4</u> /33	38
Miscellaneous products	;	37.68	37.74	37.84	31.84	<u>6</u> /	<u>6</u> /	16	16	16	18
		Cents	Cents	Cents	Cents	Percent	Percent	Percent	Percent	Percent	Percent
Beef (Choice grade) Lamb (Choice grade) Pork (retail cuts)	: Pound	30.7 35.2 28.0	29.8 35.2 2 7.2	34.3 32.1 28.0	20.0 19.7 19.7	3 0 3	-10 10 '0	62 50 52	4/63 48 53	4/57 <u>4</u> /50 52	71 69 67
Butter Cheese, American process Ice cream Milk, evaporated Milk, fluid	1/2 pound 1/2 gallon 1/2 ounce can	20.9 22.1 63.5 9.5 14.5	20.3 21.2 62.8 9.3 14.6	22.0 21.4 63.5 9.3 14.6	20.1 13.8 	3 1 2 -1	-5 3 0 2 -1	72 39 26 39 42	4/73 42 27 41 43	4/71 41 27 42 42	75 54 52 53
Chickens, frying, ready-to-cook		20.1 16.8	19.6 18.8	19.9 17.5	18.7	3 -11	1 -4	50 64	53 66	<u>4</u> /49 65	72
Bread, white All ingredients Wheat Crackers, soda Corn flakes Corn meal Flour, white Folled oats	Pound Pound 12 ounces Pound 5 pounds	11.4 36.1	18.0 27.0 24.2 10.8 37.3 18.9	18.0 25.6 23.6 10.6 38.5 18.7	10.2 ————————————————————————————————————	-1 6/ 6/ 6 -3	-1 5 3 8 -6 4	15 13 13 10 19 36 17	15 12 13 10 21 3 ¹ 4 17	14 11 12 10 20 32 17	24 20 19 31 43 34
ApplesGrapefruitLemonsOrenges	Each Pound Dozen	11.3 10.9 14.8 56.9	8.8 10.3 14.8 52.2	12.0 10.3 15.0 50.1	7.5 7.1 12.0 34.0	28 6 0 9	-6 6 -1 14	37 16 23 26	38 16 24 32	39 14 25 36	37 16 32 27
Beens, green Cabbrge Carrots Celery Lettuce Onions Potetoes Sweetpotatoes Tomatoes	Pound Pound Pound Pound Head Pound Pound Pound Pound	18.1 9.8 10.0 10.8 14.3 9.0 45.6 9.9 22.0	17.5 7.3 11.4 9.4 11.4 7.5 44.6 9.4 18.9	15.2 6.9 11.5 9.3 11.5 6.5 48.3 10.1 21.7	11.8 5.0 7.1 8.2 4.7 26.3 6.8	3 3 ⁴ -12 15 25 20 2 5	19 42 -13 16 24 38 -6 -2	41 33 35 38 32 35 31 43	38 35 24 40 38 45 21 39	40 26 31 29 29 37 4/27 4/27 32	44 28 36 43 44 49 41
Orenge juice, canned Peaches, canned Beans with pork, canned Corn, canned Peas, canned Tomatoes, canned	:No. 2-1/2 can : 16 ownce can : No. 303 can : No. 303 can	26.6 12.7 17.7 19.5	31.8 26.3 12.7 17.8 19.4 13.1	29.5 28.3 12.8 18.4 19.0 13.7	26.2 14.0 18.4 11.6	-7 1 0 -1 1	6/ -6 -1 -4	31 19 15 12 13 17	31 <u>4</u> /20 15 11 13 17	39 16 14 11 14 15	17 16 14 18
Orange juice concentrate, frozen Strawberries, frozen	: 10 ounces : 9 ounces	: 21.2 : 18.5	12.9 21.1 18.6 17.6	13.7 19.6 18.7 18.1	=	-3 <u>6/</u> -1 1	-9 8 -1 -2	40 22 19 15	44 22 18 15	46 4/27 19 14	=
Dried beans (navy)		10.9 25.3	11.2 25.5	10.8 22.6	10.2 14.3	-3 -1	1 12	37 39	35 39	36 <u>4</u> /46	49 38
Margarine, colored	: Pound : Pint	21.3 36.5 31.8 64.5	20.9 36.2 31.4 62.2	18.9 36.4 29.3 56.4	27.5 27.8 59.4	2 1 1 4	13 6/ 9 14	26 36 17 29	28 36 18 32	4/34 35 4/21 4/38	31 26 44
Corn sirup		24.5 38.5	24.7 38.5	24.3 39.4	29.0	-1 0	1 -2	10 3 ¹ 4	9 3 ¹ 4	10 <u>4</u> /33	40

^{1/} The methods of calculation and the sources of price data are given in Part II of "Farm-Retail Spreads for Food Products," U. S. Dept. Agr. Misc. Pub. 741, 1957.

2/ Product groups include more items than those listed in this table. For example, the meat products group includes weal and lower grades of beef in addition to carcass beef of Choice grade, lamb, and pork.

3/ The farm-retail spread is the difference between the retail cost and the net farm value, table on opposite page:

4/ Most farm-retail spread figures for January-March 1962, and April-June 1961 have been revised; figures in other columns revised as indicated.

5/ Sum of product groups may differ slightly from market basket total because of rounding of averages.

6/ Less than 0.5 percent.

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